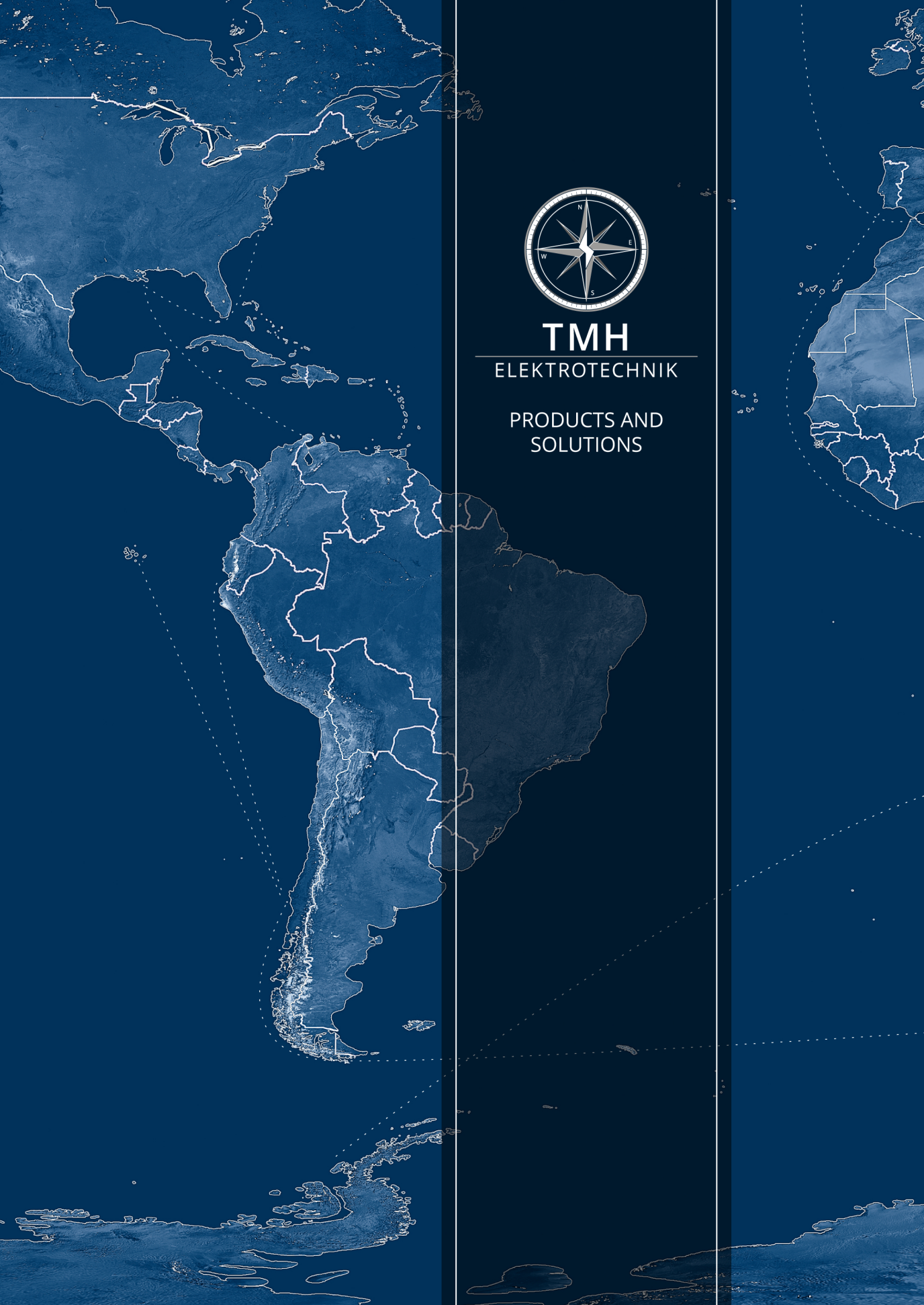

TMH

ELEKTROTECHNIK

PRODUCTS AND
SOLUTIONS

TMH
ELEKTROTECHNIK

“Unser Team erfahrener Mitarbeiter berät Sie gerne und gibt Ihnen Anregungen zur bestmöglichen Realisierung Ihrer Wünsche. Wir begleiten Sie auf dem gesamten Weg von der Idee bis zur, für Sie effizientesten Lösung.
Selbstverständlich sind für uns eine hohe Qualität und Termintreue.”

Die TMH Elektrotechnik GmbH, mit Sitz in Ellerbek bei Hamburg, wurde 1988 von Thomas Machacek gegründet.
Auf 500m² Büro und rund 400m² Lagerfläche betreiben wir mit kompetenten Mitarbeitern in den Bereichen Elektrotechnik, Mess- und Regeltechnik weltweiten Handel, mit Kooperationen u.a. in den USA, Finnland, Dänemark, Norwegen, Zypern und Südamerika.

Ein gut ausgebildetes Team von Spezialisten verfügt über besondere Kenntnisse und Kontakte in der Industrie- und Schifffahtsbranche weltweit.

Wir unterstützen Sie in allen Phasen der Realisierung Ihrer Projekte.

Seit dem Frühjahr 2004 sind wir zertifiziert nach der ISO 9001.

“Our team of specialists would like to advise and suggest for the best solutions to your requirements. We will support you all the way from the beginning of an idea to the most efficient solution.”

TMH Elektrotechnik GmbH was founded in 1988 by today’s owner Thomas Machacek in Ellerbek close to Hamburg, Germany.

We have nearly 500m² offices an 400m² warehouse. Authorized stuff is dealing with electrical equipment for marine and industry worldwide.
We have partners in the USA, Finland, Denmark, Norway, Cyprus and South America.

Our team consists of well educated specialists and we are well known especially in industrial and marine business worldwide. The favorite purpose of our team is to optimize the culmination of your ideas and imagines.

We support you in every step of the way to realize your thoughts and ideas.

Since spring of 2004 we are certificated if ISO 9001.

REINFORCED CONSTRUCTION LAMPS

Reinforced Construction Lamps 130V B22 Clear

CALEX HOLLAND

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
401508	790204	130	40	B22	Clear	60 x 106
401512	790205	130	60	B22	Clear	60 x 106
401520	790207	130	100	B22	Clear	60 x 106

Reinforced Construction Lamps 130V E27 Clear

CALEX HOLLAND

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
401606	790182	130	25	E27	Clear	60 x 108
401608	790184	130	40	E27	Clear	60 x 108
401612	790185	130	60	E27	Clear	60 x 108
401616	790186	130	75	E27	Clear	60 x 108
401620	790187	130	100	E27	Clear	60 x 108
401624	790188	130	150	E27	Clear	65 x 124
401628	790189	130	200	E27	Clear	80 x 162

Reinforced Construction Lamps 240V B22 Clear

CALEX HOLLAND

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
401704	790161	240	15	B22	Clear	60 x 106
401706	790217	240	25	B22	Clear	60 x 106
401708	790219	240	40	B22	Clear	60 x 106
401712	790220	240	60	B22	Clear	60 x 106
401720	790222	240	100	B22	Clear	60 x 106

Reinforced Construction Lamps 240V E27 Clear

CALEX HOLLAND

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
401806	790192	240	25	E27	Clear	60 x 108
401808	790194	240	40	E27	Clear	60 x 108
401812	790195	240	60	E27	Clear	60 x 108
401816	790196	240	75	E27	Clear	60 x 108
401820	790197	240	100	E27	Clear	60 x 108
401824	790198	240	150	E27	Clear	65 x 124
401828	790199	240	200	E27	Clear	80 x 162

REINFORCED CONSTRUCTION LAMPS

Reinforced Construction Lamps 230V E27 Frosted

CALEX

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
401406	790123	240	25	E27	Frosted	60 x 108
401408	790125	240	40	E27	Frosted	60 x 108
401412	790126	240	60	E27	Frosted	60 x 108
401416	790127	230	75	E27	Frosted	60 x 108
401420	790128	240	100	E27	Frosted	60 x 108

Philips Reinforced Construction Lamps 230V B22/E27 Frosted

PHILIPS

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
601312	790166	230	60	B22	Frosted	60 x 108
601406	790123	230	25	E27	Frosted	60 x 108
601408	790125	230	40	E27	Frosted	60 x 108
601412	790126	230	60	E27	Frosted	60 x 108
601420	790128	230	100	E27	Frosted	60 x 108

Osram Reinforced Construction Lamps 230V E27 Frosted

OSRAM

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
810406	790123	230	25	E27	Frosted	60 x 108
810408	790125	230	40	E27	Frosted	60 x 108
810412	790126	230	60	E27	Frosted	60 x 108
810420	790128	230	100	E27	Frosted	60 x 108

LAMPS FOR GENERAL LIGHTING SERVICE

Standard Lamps 130V E40 Clear

CALEX

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
400640	790241	130	300	E40	Clear	110 x 220
400644	790242	130	500	E40	Clear	110 x 220

LAMPS FOR GENERAL LIGHTING SERVICE LOW VOLTAGE

Standard Lamps 240V E40 Clear

CALEX

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
400840	790246	240	300	E40	Clear	110 x 220
400844	790247	240	500	E40	Clear	110 x 220
400848	790248	240	1000	E40	Clear	130 x 290

Low Voltage Lamps 12 - 24/28V B22 Frosted and Clear

CALEX

Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
402206	790472	12	25	B22	Frosted	60 x 106
402208	790474	12	40	B22	Frosted	60 x 106
402406	790482	24/28	25	B22	Frosted	60 x 106
402412	790485	24/28	60	B22	Frosted	60 x 106
402420	790486	24/28	100	B22	Frosted	60 x 106
402446		24/28	25	B22	Clear	60 x 106
402448	790484	24/28	40	B22	Clear	60 x 106
402452		24/28	60	B22	Clear	60 x 106

Low Voltage Lamps 12 - 24/28 Volt E27 Frosted and Clear

CALEX PHILIPS

Cat. no.	Cat. no.	Impa no.	Voltage	Watts	Cap	Glass	d x l mm
402306		790452	12	25	E27	Frosted	60 x 108
402308		790454	12	40	E27	Frosted	60 x 108
402312		790455	12	60	E27	Frosted	60 x 108
402352			12	60	E27	Clear	60 x 108
402504		790461	24/28	15	E27	Frosted	60 x 108
402506		790462	24/28	25	E27	Frosted	60 x 108
402508		790464	24/28	40	E27	Frosted	60 x 108
402512		790465	24/28	60	E27	Frosted	60 x 108
402520		790466	24/28	100	E27	Frosted	60 x 108
402546			24/28	25	E27	Clear	60 x 108
402548			24/28	40	E27	Clear	60 x 108
402552			24/28	60	E27	Clear	60 x 108
402560			24/28	100	E27	Clear	60 x 108
	602548		24	40	E27	Clear	60 x 108
	602552		24	60	E27	Clear	60 x 108

LAMPS FOR GENERAL LIGHTING SERVICE LOW VOLTAGE

Low Voltage Lamps 42 - 50 Volt B22 Frosted

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
402612	42	60	B22	Frosted	60 x 106
402812	50	60	B22	Frosted	60 x 106

Low Voltage Lamps 42 - 50 Volt E27 Frosted and Clear

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
402708	42	40	E27	Frosted	60 x 108
402712	42	60	E27	Frosted	60 x 108
402720	42	100	E27	Frosted	60 x 108
402724	42	150	E27	Frosted	80 x 148
402762	42	60	E27	Clear	60 x 108
402908	50	40	E27	Frosted	60 x 108

SPHERICAL LAMPS

Spherical Lamps B22 Frosted and Clear

CALEX HOLLAND

Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm
407104	24	15	B22	P45	Clear	40 x 65
407106	24	25	B22	P45	Clear	40 x 65
406906	130	25	B22	P45	Frosted	45 x 70
406908	130	40	B22	P45	Frosted	45 x 70

Spherical Lamps E14 Frosted and Clear

CALEX HOLLAND

Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm
407602	240	10	E14	P45	Frosted	45 x 75
407624	24	25	E14	P45	Clear	45 x 70
407626	24	40	E14	P45	Clear	45 x 70
407656	130	25	E14	P45	Clear	45 x 75
407658	130	40	E14	P45	Clear	45 x 75
407702	240	10	E14	P45	Clear	45 x 75
407704	240	15	E14	P45	Clear	45 x 75
407706	240	25	E14	P45	Clear	45 x 75
407708	240	40	E14	P45	Clear	45 x 75

Spherical Lamps E27 Frosted and Clear

CALEX HOLLAND

Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm
408502	240	10	E27	P45	Frosted	45 x 70
408606	24	25	E27	P45	Clear	45 x 70
408608	24	40	E27	P45	Clear	45 x 70
408756	130	25	E27	P45	Clear	45 x 70
408758	130	40	E27	P45	Clear	45 x 70
408800	240	7	E27	P45	Clear	45 x 70
408802	240	10	E27	P45	Clear	45 x 70
408804	240	15	E27	P45	Clear	45 x 70
408806	240	25	E27	P45	Clear	45 x 70
408808	240	40	E27	P45	Clear	45 x 70

TUBULAR LAMPS

Tubular Lamps Ba15d Clear

CALEX HOLLAND

Cat. no.	Impa no.	Voltage	Watts	Cap	Type	Glass	d x l mm
410008		24	40	Ba15d	T25	Clear	25 x 70
410108	790778	110	40	Ba15d	T25	Clear	25 x 67
410208		240	40	Ba15d	T30	Clear	30 x 87

E14 T18 E14 T20

Tubular Lamps Clear/Frosted

CALEX HOLLAND PHILIPS

Cat. no.	Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm
410992		240	10	E12	T18	Clear	18 x 49
410706		24	25	E14	T20	Clear	20 x 80
410998		240	10	E14	T18	Frosted	18 x 52
	611000	240	7	E14	T18	Clear	18 x 52
411002	611002	240	10	E14	T18	Clear	18 x 52
411004		240	15	E14	T18	Clear	18 x 52
411106		240	25	E14	T20	Clear	20 x 115
411108		240	40	E14	T28	Clear	28 x 64
411110		240	40	E14	T25L	Clear	25 x 80
411316		240	25	E27	T30	Clear	30 x 90
411318		240	40	E27	T30	Clear	30 x 90

E27 T30

PILOT/PYGMY LAMPS

Pilot Lamps Ba15d Clear

CALEX

Cat. no.	Impa no.	Voltage	Watts	Cap	Type	Glass	d x l mm
412206	790743	24	15	Ba15d	T22	Clear	22 x 55
412210	790744	24	25	Ba15d	T25	Clear	25 x 60
412214	790776	24	40	Ba15d	T28	Clear	28 x 60
412218		28	15	Ba15d	T26	Clear	26 x 54
412246	790632	130	15	Ba15d	T22	Clear	22 x 55
412266	790634	240	15	Ba15d	T22	Clear	22 x 55
412270	790779	240	25	Ba15d	T22	Clear	22 x 55

Pilot Lamps B22 Clear

CALEX

Cat. no.	Impa no.	Voltage	Watts	Cap	Type	Glass	d x l mm
412302	790641	24	10	B22	T28	Clear	28 x 60
412306		24	15	B22	T28	Clear	28 x 60
412310		24	25	B22	T28	Clear	28 x 60
412342	790642	130	10	B22	T28	Clear	28 x 60
412346	790643	130	15	B22	T28	Clear	28 x 60
412366	790645	240	15	B22	T28	Clear	28 x 60
412370		240	25	B22	T28	Clear	28 x 60

Pilot Lamps E14 Clear

CALEX PHILIPS

Cat. no.	Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm
412406		12	15	E14	T26	Clear	28 x 60
412410		12	25	E14	T28	Clear	28 x 64
412426		24	15	E14	T28	Clear	28 x 64
412430		24	25	E14	T28	Clear	28 x 64
412434		24	40	E14	T28	Clear	28 x 64
412466		120	15	E14	T22	Clear	22 x 60
412470		130	25	E14	T28	Clear	28 x 64
412486*	612494*	240	15	E14	T26	Clear	26 x 58
412490*		240	25	E14	T26	Clear	26 x 58

* for refrigerator

PILOT/PYGMY LAMPS

Pilot Lamps E27 Clear

CALEX

Cat. no.	Impa no.	Voltage	Watts	Cap	Type	Glass	d x l mm
412606		12	15	E27	T30	Clear	30 x 60
412618	790584	24	5	E27	T30	Clear	30 x 60
412626		24	15	E27	T30	Clear	30 x 60
412630		24	25	E27	T30	Clear	30 x 60
412656		60	15	E27	T30	Clear	30 x 60
412666	790578	130	15	E27	T30	Clear	30 x 60
412670		130	25	E27	T30	Clear	30 x 60
412686	790580	240	15	E27	T30	Clear	30 x 60
412690		240	25	E27	T30	Clear	30 x 60

CANDLE LAMPS

Candle Lamps E14 Frosted and Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm
413286	26	25	E14	B35	Frosted	35 x 100
413290	26	40	E14	B35	Frosted	35 x 100
413334	240	10	E14	B35	Frosted	35 x 100
413364	240	10	E14	B35	Clear	35 x 100

Candle - tip Lamps E14 Frosted and Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm
413604	240	10	E14	BXS35	Frosted	35 x 126
413654	240	10	E14	BXS35	Clear	35 x 126

Candle Lamps E14 Flicker Flame

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm
439632	240	3	E14	B35	Flicker Fl.	35 x 100
439636	240	3	E14	BXS35	Flicker Fl.	35 x 126

INDOOR REFLECTOR LAMPS

R39

Reflector Lamps Standard R39

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
414538	240	30	E14	R39	39 x 67

R50

Reflector Lamps Standard R50

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
414606	24	25	E14	R50	50 x 86
414616	130	25	E14	R50	50 x 86
414618	130	40	E14	R50	50 x 86
414626	240	25	E14	R50	50 x 86
414628	240	40	E14	R50	50 x 86
414630	240	60	E14	R50	50 x 86

R63

Reflector Lamps Standard R63

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
414708	24	40	E27	R63	63 x 102
414718	130	40	E27	R63	63 x 102
414720	130	60	E27	R63	63 x 102
414728	240	40	E27	R63	63 x 102
414730	240	60	E27	R63	63 x 102

R80

Reflector Lamps Standard R80

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
414808	240	40	E27	R80	80 x 112
414810	240	60	E27	R80	80 x 112
414812	240	75	E27	R80	80 x 112

R90

Reflector Lamps Standard R90

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
414860	240	60	E27	R90	90 x 120

INDOOR REFLECTOR LAMPS

R39

Philips Reflector Lamps Spotline R39

PHILIPS

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
614538	230	30	E14	R39	39 x 67

R50

Philips Reflector Lamps Spotline R50

PHILIPS

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
614626	230	25	E14	R50	50 x 86
614628	230	40	E14	R50	50 x 86

R63

Philips Reflector Lamps Spotline R63

PHILIPS

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
614724	230	25	E27	R63	63 x 102
614728	230	40	E27	R63	63 x 102
614730	230	60	E27	R63	63 x 102

R80

Philips Reflector Lamps Spotline R80

PHILIPS

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
614810	230	60	E27	R80	80 x 112
614812	230	75	E27	R80	80 x 112

JAPANESE OUTDOOR REFLECTOR LAMPS

E26

Japanese Outdoor Reflector Lamps 125V

Cat. no.	Impa no.	Voltage	Watts	Cap	Type	d x l mm
415214	790921	125	100	E26	RF-H	120 x 159
415218	790923	125	200	E26	RF-H	120 x 159
415222	790924	125	300	E39	RF-H	135 x 207
415228	790925	125	500	E39	RF-H	160 x 238
415232	790926	125	1000	E39	RF-H	180 x 315

E39

Japanese Outdoor Reflector Lamps 220V

Cat. no.	Impa no.	Voltage	Watts	Cap	Type	d x l mm
415414	790931	220	100	E26	RF-H	120 x 159
415418	790933	220	200	E26	RF-H	120 x 159
415422	790934	220	300	E39	RF-H	135 x 207
415428	790935	220	500	E39	RF-H	160 x 238
415432	790936	220	1000	E39	RF-H	180 x 315

BOWL (CROWN) REFLECTOR LAMPS

PC45

Bowl (Crown) Reflector Lamps - Top-mirror Lamps

CALEX

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
414214	240	25	E14	PC45	45 x 77
414218	240	40	E14	PC45	45 x 77
414318	240	40	E27	R60	60 x 104
414322	240	60	E27	R60	60 x 104

R60

Philips Bowl (Crown) Reflector - Top-mirror Lamps

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type		d x l mm
614218	230	40	E14	PC45		45 x 77
614318	230	40	E27	NR63	Spotline	60 x 104
614322	230	60	E27	NR63	Spotline	60 x 104

SEALED BEAM LAMPS

PAR-Japanese

PAR-Japanese type

Cat. no.	Impa no.	Voltage	Watts	Cap	Type	d x l mm
416102	791291	24	60/40	3-lugs	PAR46	145 x 103
416106	791293	24	100/75	3-lugs	PAR46	145 x 103
416112	791292	24	75/55	3-lugs	PAR46	178 x 138

PAR36

PAR36 Sealed Beam Lamps

Cat. no.	Voltage	Watts	Cap	GE Type	d x l mm
416310	6,4	30	Screw	4515	114 x 70
416366	12,8	35	Screw	4411	114 x 70
416382	12,8	50	Screw	H7604	114 x 70
416446	28	50	Screw	4505	114 x 70
416448	24	75	Screw	Halogen	114 x 70
416468	28	100	Screw	4594	114 x 70

PAR56

PAR56 Sealed Beam Lamps

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
416530	30	200	Screw	GE6045	178 x 114
416556	120	300	Gx16d	wide flood	178 x 128
416584	230	300	Gx16d	spot	178 x 128
416588	230	300	Gx16d	wide flood	178 x 128

PAR64

Par64 Sealed Beam Lamps

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
416612	28	250	Screw	GE4552	230 x 95
416672	220	1000	Gx16d	CP60/EXC	203 x 150
416676	220	1000	Gx16d	CP61/EXD	203 x 150

SEALED BEAM/PRESSED-GLAS REFLECTOR LAMPS

PAR38 spot

PAR38 Pressed-glass Reflector Lamps

CALEX

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
416768	240	60	E27	spot	121 x 134
416772	240	80	E27	spot	121 x 134
416782	240	60	E27	flood	121 x 134
416786	230	80	E27	flood	121 x 134

PAR38 flood

Philips PAR38 Pressed-glass Reflector Lamps

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
616744	24	120	E27	spot	121 x 134
616768	230	60	E27	spot	121 x 134
616772	230	80	E27	spot	121 x 134
616776	230	120	E27	spot	121 x 134
616782	230	60	E27	flood	121 x 134
616786	230	80	E27	flood	121 x 134
616792	230	120	E27	flood	121 x 134

HEATING LAMPS

Infrared Heating Lamps E26

Cat. no.	Impa no.	Voltage	Watts	Cap	Type	d x l mm
417104	790971	125	250	E26	R125	125 x 185
417112	790972	125	375	E26	R125	125 x 185
417204	790976	220	275	E26	R125	125 x 185
417212	790977	220	375	E26	R125	125 x 185
417218	790978	220	500	E26	R125	125 x 185

Philips Infrared Heating Lamps E27

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
618122	230	250	E27	IR250R	125 x 175
618132	230	250	E27	IR250CH	125 x 175
618138	230	375	E27	IR375CH	125 x 175
618152	230	175	E27	IR175R	122 x 133

DAYLIGHT - BLUE LAMP / COLORENTA LAMP

Daylight - Blue Standard Lamp E27

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
420416	230	60	E27	A60	60 x 108

opal E27

Linear Decorative Colorenta Lamp E27

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
413728	240	40	E27	COL40ED	38 x 309

OVEN LAMPS

Oven Lamps 300⁰ Celcius Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
432110	240	15	E14	T22	22 x 49
432112	240	25	E14	T22	22 x 49
432124	240	25	E14	P45	45 x 73
432136	240	40	E27	P45	45 x 73
432148	240	60	E27	A60	60 x 108

Philips Oven Lamps 300⁰ Celcius Clear

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
632110	240	15	E14	T22	22 x 49
632114	240	25	E14	T22	22 x 49
632126	240	40	E14	P45	45 x 73

Coloured Standard Lamps E27

CALEX

Cat. no.	Impa no.	Voltage	Watts	Cap	Colour	d x l mm
435702		240	25W	E27	Blue	60 x 108
435704		240	25W	E27	Yellow	60 x 108
435706		240	25W	E27	Green	60 x 108
435708		240	25W	E27	Orange	60 x 108
435710		240	25W	E27	Red	60 x 108
435802		240	40W	E27	Blue	60 x 108
435804	790327	240	40W	E27	Yellow	60 x 108
435806	790322	240	40W	E27	Green	60 x 108
435808		240	40W	E27	Orange	60 x 108
435810	790317	240	40W	E27	Red	60 x 108
435852		240	60W	E27	Blue	60 x 108
435854	790328	240	60W	E27	Yellow	60 x 108
435856	790323	240	60W	E27	Green	60 x 108
435858		240	60W	E27	Orange	60 x 108
435860	790318	240	60W	E27	Red	60 x 108

GLOW FILAMENTLAMPS

Glow Filament Rustic Lamps B22 and E27

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm
439414	240	40	B22	Rustic	Clear	64 x 135
439436	240	40	E27	Rustic	Clear	64 x 140

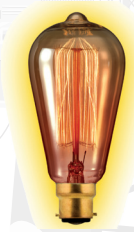

fig. 1

fig. 2

fig. 3

fig. 4

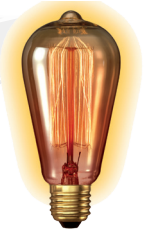

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

Goldline Filament Lamps B22, E27 and E14

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Glass	d x l mm	Fig.
442064	240	40	B22	Rustic	Gold	64 x 140	1
442406	240	40	E27	A60	Gold	60 x 108	2
442410	240	40	E27	T45	Gold	45 x 126	3
442414	240	40	E27	G80	Gold	80 x 122	4
442418	240	40	E27	Rustic	Gold	64 x 140	5
442422	240	25	E14	BXS35	Gold	35 x 126	6
442426	240	25	E14	B35	Gold	35 x 100	7
442430	240	25	E14	BW35	Gold	35 x 100	8
442434	240	25	E14	G60	Gold	60 x 80	9
442438	240	25	E27	G60	Gold	60 x 80	10

STRIPLITE

Striplite Lamps

CALEX PHILIPS

Cat. no.	Cat. no.	Voltage	Watts	Cap	Type	d x l mm
441220		240	30	S15	Clear	26 x 221
441250		240	60	S15	Clear	25 x 221
441348		240	60	S15	Opal	25 x 284
	641340	230/240	40	S19	Frosted	37 x 311

HIGH VOLTAGE HALOGEN LAMPS

Halogen Lamps with double-ended R7s

PHILIPS

Cat. no.	Cat. no.	Impa no.	Voltage	Watts	Cap	d x l mm
510120			30	375	R7s	10 x 78
510132			28	200	R7s	10 x 118
510140			42	300	R7s	10 x 118
510148			42	400	R7s	10 x 118
510668		791261	130	300	R7s	10 x 118
510672		791262	130	500	R7s	10 x 118
510272		791266	130	1000	R7s	10 x 189
510288			130	1500	R7s	10 x 254
511440			240	300	R7s	10 x 118
511448		791263	240	500	R7s	10 x 118
510456			240	500	R7s	10 x 189
510464			240	755	R7s	10 x 189
510472	650472	791267	240	1000	R7s	10 x 189
510480			240	1000	R7s	10 x 254
510488	650488	791265	240	1500	R7s	10 x 254
510496			240	2000	R7s	10 x 334

REINFORCED HALOGEN LAMPS

Reinforced Halogen Lamps with double-ended R7s

Cat. no.	Impa no.	Voltage	Watts	Cap	d x l mm
510700		240	60	R7s	10 x 78
510708		240	100	R7s	10 x 78
510716		240	150	R7s	10 x 78
510808		240	100	R7s	10 x 118
510816		240	150	R7s	10 x 118
510824		240	200	R7s	10 x 118
510840		240	300	R7s	10 x 118
510848	791263	240	500	R7s	10 x 118
510872	791267	240	1000	R7s	10 x 189
510888	791265	240	1500	R7s	10 x 254

HIGH VOLTAGE HALOGEN LAMPS

Halogen Lamps E11

Cat. no.	Impa no.	Voltage	Watts	Cap	d x l mm
512116	791251	110/130	75	E11 x 24	10 x 63
512120	791252	110/130	100	E11 x 24	10 x 63
512128	791253	110/130	150	E11 x 18	12 x 68
512136	791254	110/130	250	E11 x 18	12 x 70
512144	791255	110/130	500	E11 x 18	14 x 87
512150		220/240	250	E11 x 18	12 x 80
512158	791256	220/240	500	E11 x 24	14 x 87

Halogen Lamps E14

Cat. no.		Voltage	Watts	Cap	d x l mm
512180		220/240	100	E14 x 24	14 x 75
512188		220/240	150	E14 x 24	14 x 75
512196		220/240	250	E14 x 18	14 x 75

Halogen Lamps Double envelope (Iode) E27

Cat. no.		Voltage	Watts	Cap	d x l mm
512212		110/130	250	E27	31 x 105
512232		220/230	100	E27	47 x 115
512240		220/230	150	E27	47 x 115
512248		220/230	250	E27	31 x 105

Halogen Lamps Double envelope (Iode) E40

PHILIPS

Cat. no.	Cat. no.	Impa no.	Voltage	Watts	Cap	d x l mm
512318		791271	110/130	500	E40	46 x 200
512324			110/130	1000	E40	46 x 265
512346	652346	791272	220/240	500	E40	46 x 200
512354	652354	791273	220/240	1000	E40	46 x 265

HIGH VOLTAGE HALOGEN LAMPS

Halogen Lamps GY6.35

Cat. no.	Voltage	Watts	Cap	d x l mm
512380	230/240	35	GY6.35	13 x 45
512382	230/240	50	GY6.35	13 x 45
512384	230/240	75	GY6.35	13 x 65
512386	230/240	100	GY6.35	13 x 65
512388	230/240	150	GY6.35	13 x 65

Halogen Lamps with Reflector 35 mm GU10

Cat. no.	Voltage	Watts	Cap	spread
512974	230	20	GU10	30°
512980	230	35	GU10	30°

Halogen Lamps with Reflector 50 mm GU10

CALEX

Cat. no.	Voltage	Watts	Cap	spread
513080	130	35	GU10	38°
513096	130	50	GU10	38°
513106	240	20	GU10	38°
513146	240	35	GU10	38°
513216	240	50	GU10	38°
513228	240	75	GU10	38°

Philips Halogen Lamps with Reflector 50 mm GU10

PHILIPS

Cat. no.	Voltage	Watts	Cap	spread
653210	230	50	GU10	20°
653216	230	50	GU10	40°

Halogen Burner G4

CALEX PHILIPS

Cat. no.	Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
514120		6	10	G4	Clear	9 x 30
514128		6	20	G4	Clear	9 x 30
516130	654130	12	5	G4	Clear	9 x 30
516136	654136	12	10	G4	Clear	9 x 30
516144	654144	12	20	G4	Clear	9 x 30
514154		12	35	G4	Clear	9 x 30
514212		24	5	G4	Clear	9 x 30
514228		24	10	G4	Clear	9 x 30
514234		24	15	G4	Clear	9 x 30
514240	654240	24	20	G4	Clear	9 x 30
514246		24	35	G4	Clear	9 x 30

Halogen Burner GY6.35

CALEX PHILIPS

Cat. no.	Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
514286	654286	12	20	GY6.35	Clear	12 x 44
516292	654292	12	35	GY6.35	Clear	12 x 44
516340	654310	12	50	GY6.35	Clear	12 x 44
514316	654316	12	75	GY6.35	Clear	12 x 44
514336	654336	12	100	GY6.35	Clear	12 x 44
514372		24	20	GY6.35	Clear	12 x 44
514378		24	35	GY6.35	Clear	12 x 44
514386	654386	24	50	GY6.35	Clear	12 x 44
514394		24	75	GY6.35	Clear	12 x 44
514402	654402	24	100	GY6.35	Clear	12 x 44
514410		24	150	GY6.35	Clear	12 x 44

Halogen Lamps with Reflector MR11-35 mm GU4

PHILIPS					Beam		
Cat. no.	Cat. no.	Voltage	Watts	Cap	spread	Type	d x l mm
514630	654630	12	20	GU4	10°	FTB	35 x 35
514636	654636	12	20	GU4	30°	FTD	35 x 35
514650	654650	12	35	GU4	10°	FTE	35 x 35
514656	654656	12	35	GU4	30°	FTD	35 x 35
515210		28	20	GU4	30°	closed	35 x 35

Halogen Lamps with Reflector MR16-50 mm GU5.3

PHILIPS					Beam		
Cat. no.	Cat. no.	Voltage	Watts	Cap	spread	Type	d x l mm
515298	655298	12	20	GU5.3	10°	ESX	50 x 46
515304	655304	12	20	GU5.3	24°	BBF	50 x 46
515310	655310	12	20	GU5.3	36°	BAB	50 x 46
	655314	12	20	GU5.3	60°		50 x 46
515318	655318	12	35	GU5.3	10°	FRB	50 x 46
515324	655324	12	35	GU5.3	24°	FRA	50 x 46
515330	655330	12	35	GU5.3	36°	FMW	50 x 46
	655334	12	35	GU5.3	60°		50 x 46
515338	655338	12	50	GU5.3	10°	EXT	50 x 46
515344	655344	12	50	GU5.3	24°	EXZ	50 x 46
515350	655350	12	50	GU5.3	36°	EXN	50 x 46
	655356	12	50	GU5.3	60°		50 x 46
515420		24	20	GU5.3	38°	closed	50 x 46
515430		24	35	GU5.3	38°	closed	50 x 46
515440		24	50	GU5.3	38°	closed	50 x 46
515452		28	20	GU5.3	38°	closed	50 x 46

HIGH VOLTAGE ECO HALOGEEN LAMPS

Eco Halogen Lamps 230V B22 / A55

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
507458	230	28(37)	B22	A55	370	55 x 91
507462	230	42(56)	B22	A55	630	55 x 91
507470	230	70(92)	B22	A55	1180	55 x 91

Eco Halogen Lamps 230V E27 A55 / A60

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
507506	230	18(25)	E27	A55	210	55 x 97
507508	230	28(37)	E27	A55	370	55 x 97
507512	230	42(56)	E27	A55	630	55 x 97
507516	230	53(70)	E27	A55	840	55 x 97
507520	230	70(92)	E27	A55	1180	55 x 97
507524	230	105(136)	E27	A60	1900	55 x 97

Eco Halogen Lamps Spherical 230V E14/E27 P45 Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
507776	230	18(25)	E14	P45	210	45 x 77
507778	230	28(37)	E14	P45	370	45 x 77
507780	230	42(56)	E14	P45	630	45 x 77
507856	230	18(25)	E27	P45	210	45 x 75
507858	230	28(37)	E27	P45	370	45 x 75
507860	230	42(56)	E27	P45	630	45 x 75

Eco Halogen Lamps Tip Ball 230V E14 PXS45 Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
508176	230	18(25)	E14	PXS45	210	45 x 103
508178	230	28(37)	E14	PXS45	370	45 x 103

Eco Halogen Lamps Candle 230V Ba15d B35 Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
507938	230	28(37)	Ba15d	B35	370	35 x 98

HIGH VOLTAGE ECO HALOGEEN LAMPS

Eco Halogen Lamps Candle 230V E14 B35 Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
507956	230	18(25)	E14	B35	210	35 x 103
507958	230	28(37)	E14	B35	370	35 x 103
507960	230	42(56)	E14	B35	630	35 x 103

Eco Halogen Lamps Twisted-Candle 230V E14 BW35 Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
508056	230	18(25)	E14	BW35	210	35 x 103
508058	230	28(37)	E14	BW35	370	35 x 103
508060	230	42(56)	E14	BW35	630	35 x 103

Eco Halogen Lamps Tip-Candle 230V E14 BXS35 Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
508156	230	18(25)	E14	BXS35	210	35 x 127
508158	230	28(37)	E14	BXS35	370	35 x 127
508160	230	42(56)	E14	BXS35	630	35 x 127

Eco Halogen Lamps Pyramid 230V E14 Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
508186	230	18(25)	E14	Pyramid	210	35 x 107
508188	230	28(37)	E14	Pyramid	370	35 x 107

Eco Halogen Tubular Lamps 240V E14 Clear

CALEX

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
508198	230	28(37)	E14	T25L	370	25 x 86
508204	230	42(56)	E14	T28L	630	28 x 78

HIGH VOLTAGE ECO HALOGEEN LAMPS

Eco Halogen Lamps Globe 230V B22 G95 Clear

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
508260	230	28(37)	B22	G95	370	95 x 130
508262	230	42(56)	B22	G95	630	95 x 130

Eco Halogen Lamps Globe 230V E27 G95 Clear

Cat. no.	Voltage	Watts	Cap	Type	Lumen	d x l mm
508280	230	28(37)	E27	G95	370	95 x 130
508282	230	42(56)	E27	G95	630	95 x 130
508284	230	53(70)	E27	G95	840	95 x 130
508286	230	70(92)	E27	G95	1180	95 x 130
508288	230	105(129)	E27	G95	1170	95 x 130

Eco Halogen Lamps 230V R7s

Cat. no.	Voltage	Watts	Cap	Lumen	d x l mm
509104	230	48(63)	R7s	740	8 x 78
509108	230	80(104)	R7s	1400	8 x 78
509112	230	100(130)	R7s	1800	8 x 78
509116	230	130(168)	R7s	2440	8 x 78
509118	240	80(104)	R7s	1400	8 x 118
509122	230	100(130)	R7s	1800	8 x 118
509126	230	130(168)	R7s	2440	8 x 118
509130	230	200(256)	R7s	3980	10 x 118
509134	230	330(425)	R7s	6930	10 x 118

Eco Halogen Lamps 230V G9 Clear

Cat. no.	Voltage	Watts	Cap	Lumen	d x l mm
518206	230	18(25)	G9	210	14 x 43
518208	230	28(37)	G9	370	14 x 43
518212	230	42(56)	G9	630	14 x 43

HIGH VOLTAGE ECO HALOGEEN LAMPS

Eco Halogen Lamps 230V GU10

Cat. no.	Voltage	Watts	Cap	Beam spread	Lumen	d x l mm
509258	230	18	GU10	30°	120	50 x 56
509262	230	28	GU10	30°	220	50 x 56
509266	230	40	GU10	30°	350	50 x 56

Eco Halogen Lamps 230V E27 Par20

Cat. no.	Voltage	Watts	Cap	Beam spread	Lumen	d x l mm
509366	230	42(59)	E27	30°	370	65 x 91

Eco Halogen Lamps 230V E27 Par30

Cat. no.	Voltage	Watts	Cap	Beam Spread	Lumen	d x l mm
509420	230	53(69)	E27	30°	500	91 x 97

Eco Halogen Reflector Lamps 230V E14 R50

Cat. no.	Voltage	Watts	Cap	Lumen	d x l mm
508300	230	28	E14	220	39 x 73

Eco Halogen Reflector Lamps 230V E14 R50

Cat. no.	Voltage	Watts	Cap	Lumen	d x l mm
508306	230	18(31)	E14	210	50 x 87
508308	230	28	E14	220	50 x 87

Eco Halogen Reflector Lamps 230V E27 R63

Cat. no.	Voltage	Watts	Cap	Lumen	d x l mm
508358	230	18	E27	120	63 x 105
508360	230	28(47)	E27	220	63 x 105
508362	230	42	E27	370	63 x 105

HIGH VOLTAGE ECO HALOGEEN LAMPS

Eco Halogen Reflector Lamps 230V E27 R80

CALEX

Cat. no.	Voltage	Watts	Cap	Lumen	d x l mm
508370	230	42	E27	370	80 x 112
508374	230	70	E27	1180	80 x 112

Eco Halogen Refl ector Lamps 230V E27 R90

CALEX

Cat. no.	Voltage	Watts	Cap	Lumen	d x l mm
508380	230	42	E27	370	90 x 114
508384	230	70	E27	1180	90 x 114

LOW VOLTAGE ECO HALOGEEN LAMPS

Eco Halogen Burner 12V G4

CALEX

Cat. no.	Voltage	Watts	Cap	Lumen	d x l mm
518010	12	10(16)	G4	88	9 x 30
518016	12	20(32)	G4	235	9 x 30

Eco Halogen Burner 12V GY6.35

CALEX

Cat. no.	Voltage	Watts	Cap	Lumen	d x l mm
518022	12	20(32)	GY6.35	300	12 x 44
518028	12	35(46)	GY6.35	550	12 x 44

Eco Halogen Lamps with Reflector MR11-35 mm GU4

CALEX

Cat. no.	Voltage	Watts	Cap	Beam Spread	Lumen	d x l mm
509710	12	10	GU4	30°	55	35 x 35
509720	12	24	GU4	30°	200	35 x 35

Eco Halogen Lamps with Reflector MR16-50 mm GU5.3

CALEX

Cat. no.	Voltage	Watts	Cap	Beam Spread	Lumen	d x l mm
509750	12	10	GU5.3	36°	55	50 x 46
509664	12	20(23)	GU5.3	36°	200	50 x 46
509778	12	35(43)	GU5.3	36°	425	50 x 46

PHILIPS HIGH VOLTAGE ECO HALOGEEN LAMPS

Philips EcoClassic GLS-Lamps

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
658004	230	18	E27	A55	56 x 97
658006	230	28	E27	A55	56 x 97
658010	230	42	E27	A55	56 x 97
658014	230	53	E27	A55	56 x 97
658018	230	70	E27	A55	56 x 97
658022	230	105	E27	A55	56 x 97
658026	230	140	E27	A55	56 x 97

Philips EcoClassic Ball-Lamps

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
658106	230	18	E14	P45	46 x 80
658110	230	28	E14	P45	46 x 80
658114	230	42	E14	P45	46 x 80
658136	230	18	E27	P45	46 x 74
658140	230	28	E27	P45	46 x 74
658144	230	42	E27	P45	46 x 74

Philips EcoClassic Candle-Lamps

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
658166	230	18	E14	B35	36 x 99
658170	230	42	E14	B35	36 x 99
658174	230	28	E14	B35	36 x 99

Philips EcoClassic Twisted Candle-Lamps

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
658186	230	18	E14	B35	36 x 99
658190	230	28	E14	B35	36 x 99
658194	230	42	E14	B35	36 x 99

PHILIPS HIGH VOLTAGE ECO HALOGEEN LAMPS

Philips EcoClassic Tip Candle-Lamps

PHILIPS

Cat. no.		Voltage	Watts	Cap	Type	d x l mm
658206		230	18	E14	BXS35	36 x 115
658208		230	28	E14	BXS35	36 x 115

Philips EcoClassic Tubular-Lamps

PHILIPS

Cat. no.		Voltage	Watts	Cap	Type	d x l mm
658256		230	18	E14	T25L	25 x 86
658258		230	28	E14	T25L	25 x 86

Philips Halogen Lamps Plusline ES R7s

PHILIPS

Cat. no.		Voltage	Watts	Cap	d x l mm
650700		230	48(60)	R7s	11 x 78
650708		230	80(100)	R7s	11 x 78
650716		230	120(150)	R7s	11 x 78
650766		230	120(150)	R7s	11 x 118
650774		230	160(200)	R7s	11 x 118
650790		230	240(300)	R7s	11 x 118
650798	791263	230	400(500)	R7s	11 x 118

Philips Halogen EcoHalo Clickline Lamps G9

PHILIPS

Cat. no.		Voltage	Watts	Cap	d x l mm
657360		230	18	G9	13 x 45
657364		230	28	G9	13 x 45
657368		230	42	G9	13 x 45

PHILIPS HIGH VOLTAGE ECO HALOGEEN LAMPS

Philips Halogen EcoHalo Twist Lamps GU10

PHILIPS

Cat. no.	Voltage	Watts	Cap	d x l mm
657306	230	25	GU10	51 x 51
657310	230	35	GU10	51 x 51

Philips Halogen EcoClassic Reflector Lamps R50

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
659046	230	18	E14	R50	51 x 87
659050	230	28	E14	R50	51 x 87

Philips Halogen EcoClassic Reflector Lamps R63

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
659066	230	28	E27	R63	65 x 105
659070	230	42	E27	R63	65 x 105

Philips Halogen EcoClassic Reflector Lamps R80

PHILIPS

Cat. no.	Voltage	Watts	Cap	Type	d x l mm
659086	230	42	E27	R80	81 x 112
659090	230	70	E27	R80	81 x 112

PHILIPS LOW VOLTAGE ECO HALOGEEN LAMPS

Philips EcoClassic burner Lamps 12V G4

PHILIPS

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
659512	12	14	G4	Clear	9 x 31

Philips EcoClassic burner Lamps 12V Gy6.35

PHILIPS

Cat. no.	Voltage	Watts	Cap	Glass	d x l mm
659562	12	25	Gy6.35	Clear	10 x 44
659566	12	35	Gy6.35	Clear	10 x 44

Philips EcoClassic Halogen Lamps with Reflector MR11-35 mm GU4

PHILIPS

					Beam	
Cat. no.	Voltage	Watts	Cap	Type	Spread	d x l mm
659612	12	14	Gu4	MR11	30^0	36 x 40

Philips EcoClassic Halogen Lamps with Reflector MR16-50 mm GU5.3

PHILIPS

					Beam	
Cat. no.	Voltage	Watts	Cap	Type	Spread	d x l mm
659662	12	14	GU5.3	MR16	36^0	51 x 46
659674	12	25	GU5.3	MR16	36^0	51 x 46
659686	12	35	GU5.3	MR16	36^0	51 x 46

Wire Ended T1 1/2

l = without wire

Cat. no.	Voltage	mA	d x l mm
460160	12	100	4.9 x 13
460190	28	40	4.9 x 13

Bi-Pin T1 Pin distance 1.27

l = without pin

Cat. no.	Voltage	mA	d x l mm
460210	12	30	3.2 x 9.5
460240	28	40	3.2 x 9.5

Bi-Pin T1 Pin distance 2.54

l = without pin

Cat. no.	Voltage	mA	d x l mm
460270	12	60	3.2 x 9.5
460300	28	24	3.2 x 9.5
460310	28	40	3.2 x 9.5
460316	36	20	3.2 x 9.5

Bi-Pin T1 3/4 Pin distance 3.17

l = without pin

Cat. no.	Voltage	mA	d x l mm
460340	12	60	5 x 16
460360	14	80	5 x 16
460364	14	100	5 x 16
460380	28	40	5 x 16
460390	32	33	5 x 16

Bi-Pin T1 3/4 (Relampable) Pin distance 5.5

l = without pin

Cat. no.	Voltage	mA	d x l mm
460420	28	40	6 x 16
460440	32	33	6 x 16

Bi-Pin GE Pin distance 5.5

l = without pin

Cat. no.	Voltage	mA	d x l mm
460460	6.3	150	11 x 16,5

Midget Flanged T1 — Flange Ø 4.6 mm

Cat. no.	Voltage	mA	d x l mm
460520	5	21	3 x 9.2
460527	12	60	3 x 9.2
460550	28	24	3 x 9.2
460560	28	40	3 x 9.2

Midget Flanged T1 1/4 — Flange Ø 4.8 mm

Cat. no.	Voltage	mA	d x l mm
460600	28	25	4.8 x 16

Midget Flanged T1 3/4 — Flange Ø 6.2 mm

Cat. no.	Impa no.	Voltage	mA	Type	d x l mm
460660		1.35	60	698	6 x 16
460670		2,5	350		6 x 16
460680	790701	6	100		6 x 16
460688	790702	6	200	328	6 x 16
460700		12	100		6 x 16
460710	790703	14	40		6 x 16
460716	790704	14	80	370	6 x 16
460718		14	100		6 x 16
460730	790705	18	40		6 x 16
460740	790706	28	25		6 x 16
460746		28	40	327	6 x 16
460748	790707	28	40	387	6 x 16
460760		32	33		6 x 16
460770		36	30		6 x 16
460780		48	20		6 x 16
460784		48	25		6 x 16
460788		48	30		6 x 16
460800		60	20		6 x 16

Midget Grooved T7

Cat. no.	Impa no.	Voltage	mA	Type	d x l mm
460820	790731	15	20		6.7 x 22
460840	790732	30	30		6.7 x 22

Midget Grooved T1 3/4

Cat. no.	Impa no.	Voltage	mA	Type	d x l mm
460854		1.35	60		6 x 16
460860		2,5	350	266	6 x 16
460880	790711	6	200	337	6 x 16
460900		12	40	7354	6 x 16
460920	790712	14	30		6 x 16
460926	790712	14	50		6 x 16
460932		14	80		6 x 16
460950		28	25		6 x 16
460954	790713	28	40	388	6 x 16
460970		30	40		6 x 16
460990		36	30		6 x 16
461000		48	30		6 x 16
461010		60	20		6 x 16

Midget Trap T1 3/4

Cat. no.	Impa no.	Voltage	mA	d x l mm
461046		6.3	60	5,7 x 17
461050	790721	6	100	5,7 x 17
461056	790722	12	50	5,7 x 17
461060	790716	14	50	5,7 x 17
461064	790723	18	33	5,7 x 17
461068	790717	18	50	5,7 x 17
461072	790724	24	25	5,7 x 17
461076	790725	28	20	5,7 x 17
461080	790718	28	40	5,7 x 17

Midget Bayonet Ba5s

Cat. no.	Voltage	mA	d x l mm
461120	14	80	6 x 16
461150	28	40	6 x 16
461170	32	30	6 x 16
461190	36	25	6 x 16
461220	60	20	6 x 16

SUBMINIATURE LAMPS

Midget Edison E5.5

Cat. no.	Voltage	mA	d x l mm
461250	6	40	5 x 15
461256	6	60	5 x 15
461260	6	80	5 x 15
461266	6	200	5 x 15
461280	12	50	5 x 15
461286	12	100	5 x 15
461300	14	40	5 x 15
461304	14	50	5 x 15
461310	14	80	5 x 15
461330	28	40	5 x 15

Cross Base F9

Cat. no.	Voltage	mA	d x l mm
461360	12	120	7 x 28
461380	24	40	7 x 28
461410	60	20	7 x 28

H' Shape Lamp

Cat. no.	Voltage	Type	d x l mm
461430	28	Terasaki OL-4089	6 x 20

NH' Shape Lamp

Cat. no.	Impa no.	Voltage	mA	d x l mm
461450	790735	28	22	4.85 x 21

Wedge Base T5 W2 x 4,6D

Cat. no.	Voltage	mA	Watts	d x l mm
461510	6	20	1,2	5 x 20
461520	6/7	30		5 x 20
461540	12	100	1,2	5 x 20
461556	14	80	1,12	5 x 20
461568	12/15	50		5 x 20
461580	24	50	1,2	5 x 20
461590	24/28	30		5 x 20

SUBMINIATURE LAMPS

Wedge Base T10 W2,1 x 9,5D				
Cat. no.	*Voltage*	*mA*	*Watts*	*d x l mm*
461620	6,3	250	1,6	10 x 25
461628	6,3	500	3,1	10 x 25
461640	12	100	1,2	10 x 25
461648	12	183	2,2	10 x 25
461656	12	400	5	10 x 25
461670	12/15		2	10 x 25
461676	12/15		3	10 x 25
461690	24	125	3	10 x 25
461700	24/28		2	10 x 25
461710	28	170	5	10 x 25

MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

Bayonet Ba7s 7 x 20 mm					
Cat. no.	*Impa no.*	*Voltage*	*mA*	*Watts*	*d x l mm*
462116		6	40	0,24	7 x 20
462120		6	50	0,3	7 x 20
462126	790876	6	100	0,6	7 x 20
462132		6	180	1	7 x 20
462152		12	25	0,3	7 x 20
462156		12	50	0,6	7 x 20
462162	790881	12	100	1,2	7 x 20
462166	790877	12	170	2	7 x 20
462186	790878	24	50	1,2	7 x 20
462190		24	80	2	7 x 20
462194	790879	24	125	3	7 x 20
462214		30	40	1,2	7 x 20
462216		30	50	1,5	7 x 20
462220		30	70	2,1	7 x 20
462236		36	50	1,8	7 x 20
462252		48	20	1	7 x 20
462256		48	40	1,92	7 x 20
462260		48	50	2,4	7 x 20
462282		60	20	1,2	7 x 20

MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

Bayonet Ba7s 7 x 23 mm

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
462316		6	40	0,24	7 x 23
462320		6	50	0,3	7 x 23
462326		6	100	0,6	7 x 23
462330		6	200	1,2	7 x 23
462346	790880	12	50	0,6	7 x 23
462350	790881	12	100	1,2	7 x 23
462356		12	170	2	7 x 23
462394		24	25	0,6	7 x 23
462398		24	50	1,2	7 x 23
462406		24	80	2	7 x 23
462410		24	130	3	7 x 23
462426		28	50	1,4	7 x 23
462446		30	50	1,5	7 x 23
462452		30	100	3	7 x 23
462476		36	50	1,8	7 x 23
462504		48	30	1,44	7 x 23
462508		48	100	4,8	7 x 23
462512		60	20	1,2	7 x 23

Bayonet Ba9s 9 x 23 mm

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
463116		2,5	500	1,25	9 x 23
463126		4	250	1	9 x 23
463154		6	100	0,6	9 x 23
463160		6	200	1,2	9 x 23
463168		6	333	2	9 x 23
463176		6	500	3	9 x 23
463182		6	666	4	9 x 23
463188		6	840	5	9 x 23
463208	790671	6.3	150	0,9	9 x 23
463226		12	50	0,6	9 x 23
463230		12	80	0,96	9 x 23
463232		12	100	1,2	9 x 23
463236		12	120	1,44	9 x 23
463240		12	165	2	9 x 23

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Bayonet Ba9s 9 x 23 mm

continuation

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
463248	790639	12	250	3	9 x 23
463276	790640	24	50	1,2	9 x 23
463280	790646	24	80	2	9 x 23
463284		24	100	2,4	9 x 23
463288	790647	24	125	3	9 x 23
463292		24	165	4	9 x 23
463306		28	40	1,1	9 x 23
463326	790676	30	50	1,5	9 x 23
463330	790648	30	65	2	9 x 23
463338	790649	30	100	3	9 x 23
463356	790650	36	55	2	9 x 23
463376		42	45	2	9 x 23
463394		48	40	2	9 x 23
463398		48	60	3	9 x 23
463414	790659	60	20	1,2	9 x 23
463418		60	50	3	9 x 23
463444		130	20	2,6	9 x 23
463474		240	10	2,4	9 x 23

Bayonet Ba9s 10 x 28 mm

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
463516		1,2	50	0,06	10 x 28
463536		2	60	0,12	10 x 28
463544		2,5	300	0,75	10 x 28
463554		4	300	1,2	10 x 28
463564		5	300	1,5	10 x 28
463588		6	180	1,1	10 x 28
463596		6	350	2	10 x 28
463602		6	500	3	10 x 28
463608		6	1000	6	10 x 28
463628	790601	6,3	150	1	10 x 28
463634	790660	6,3	250	1,6	10 x 28
463644		6,5	300	1,95	10 x 28
463654		7	300	2,1	10 x 28
463664		6/8	250	1,75	10 x 28

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MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

continuation

Bayonet Ba9s 10 x 28 mm

Cat. no.	*Impa no.*	*Voltage*	*mA*	*Watts*	*d x l mm*
463674	790602	8	100	0,8	10 x 28
463698	790603	12	100	1,2	10 x 28
463706	790678	12	165	2	10 x 28
463712		12	200	2,4	10 x 28
463718		12	250	3	10 x 28
463726		12	330	4	10 x 28
463748		14	200	2,8	10 x 28
463766	790604	18	110	1,98	10 x 28
463784		24	20	0,48	10 x 28
463788	790680	24	40	1	10 x 28
463792		24	50	1,2	10 x 28
463796	790690	24	80	2	10 x 28
463800	790605	24	100	2,4	10 x 28
463804	790691	24	125	3	10 x 28
463808		24	165	4	10 x 28
463816		24	208	5	10 x 28
463834	790692	28	40	1,1	10 x 28
463838		28	50	1,4	10 x 28
463842		28	80	2,2	10 x 28
463846	790606	28	100	3	10 x 28
463852		28	170	5	10 x 28
463888		24/30	80	2	10 x 28
463906	790694	30	40	1,1	10 x 28
463910		30	50	1,4	10 x 28
463914	790695	30	70	2	10 x 28
463918	790607	30	100	3	10 x 28
463956		36	55	2	10 x 28
463960		36	85	3	10 x 28
463986		42	50	2	10 x 28
463992		42	120	5	10 x 28
464016		48	25	1,2	10 x 28
464020	790612	48	40	2	10 x 28
464024	790608	48	60	3	10 x 28
464042		60	20	1,2	10 x 28
464046	790697	60	33	2	10 x 28
464050	790609	60	50	3	10 x 28
464076		120	50	5	10 x 28

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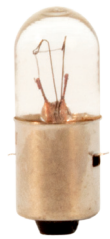
MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

continuation

Bayonet Ba9s 10 x 28 mm

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
464086	790610	130	20	2,6	10 x 28
464104		160	20	3,2	10 x 28
464124		230	11	2,6	10 x 28
464128	790699	230	13	3	10 x 28
464132		230	17	4	10 x 28
464136	790611	230	20	5	10 x 28



Bayonet Ba10s 10 x 28 mm

Cat. no.		Voltage	mA	Watts	d x l mm
464516		6	500	3	10 x 28
464524		12	250	3	10 x 28
464532		24	125	3	10 x 28
464540		30	100	3	10 x 28
464548		48	62	3	10 x 28
464556		60	50	3	10 x 28

Bayonet Ba15d 14 x 30 mm

Cat. no.	Impa no.	Voltage	Watts	d x l mm
464624		12	3	14 x 30
464642		24	2	14 x 30
464644	790683	24	3	14 x 30
464648		24	5	14 x 30
464692		60	1,2	14 x 30
464696		60	3	14 x 30
464714		130	2,6	14 x 30
464734		220	3	14 x 30

MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

Bayonet Ba15d 16 x 35 mm

Cat. no.	Impa no.	Voltage	Watts	d x l mm
464816		6	2	16 x 35
464820		6	5	16 x 35
464846		12	2	16 x 35
464850		12	5	16 x 35
464876		24	3	16 x 35
464880		24	5	16 x 35
464906		24/30	5(7)	16 x 35
464924		30	3	16 x 35
464928		30	5	16 x 35
464944		36	3	16 x 35
464948		36	5	16 x 35
464964		48	3	16 x 35
464968		48	5	16 x 35
464988		60	5	16 x 35
464998		85	10	16 x 35
465012	790686	110	6	16 x 35
465022		110/140	2(4)	16 x 35
465034	790687	160	5	16 x 35
465044	790689	240	5	16 x 35
465056		220/260	5(7)	16 x 35
465062		220/260	6(10)	16 x 35

Bayonet Ba15d 16 x 45 mm

Cat. no.	Impa no.	Voltage	Watts	d x l mm
465218	790738	12	10	16 x 45
465224	790739	12	15	16 x 45
465242		36	5	16 x 45
465276	790746	110/140	5(7)	16 x 45
465294	790799	220	10	16 x 45
465298		240	15	16 x 45
465300		220/260	5(7)	16 x 45
465306		260	5	16 x 45

MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

Bayonet Ba15d 16 x 52 mm				
Cat. no.	*Impa no.*	*Voltage*	*Watts*	*d x l mm*
465416		6	5	16 x 52
465438	790737	12	5	16 x 52
465468	790620	24	5	16 x 52
465478	790618	24/30	3(5)	16 x 52
465482	790742	24/30	6/10	16 x 52
465508		42	5	16 x 52
465528		48	5	16 x 52
465538		48/60	3(5)	16 x 52
465548		60	5	16 x 52
465552		60	10	16 x 52
465564		65/95	6/10	16 x 52
465576	790621	110/140	5(7)	16 x 52
465582	790622	110/140	6(10)	16 x 52
465608		220/260	3(5)	16 x 52
465612	790624	220/260	5(7)	16 x 52
465616		220/260	6(10)	16 x 52
465620	790633	220/260	10(15)	16 x 52
465636		380	10	16 x 52

Bayonet Ba15d 20 x 48 mm				
Cat. no.	*Impa no.*	*Voltage*	*Watts*	*d x l mm*
465652	790625	220/260	6(10)	20 x 48

Bayonet Ba15s 19 x 48 mm			
Cat. no.	*Voltage*	*Watts*	*d x l mm*
465672	220	10	19 x 48

Edison E10 11 x 23mm Shell-type				
Cat. no.	*Voltage*	*mA*	*Watts*	*d x l mm*
466116	24	80	3	11 x 21

MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

Edison E10 10 x 23mm					
Cat. no.	*Impa no.*	*Voltage*	*mA*	*Watts*	*d x l mm*
466226		6	80	0,5	9 x 23
466234	790651	6	333	2	9 x 23
466238		6	500	3	9 x 23
466256		12	50	0,6	9 x 23
466262		12	100	1,2	9 x 23
466266		12	165	2	9 x 23
466272	790652	12	250	3	9 x 23
466316	790655	24	50	1,2	9 x 23
466320	480816	24	80	2	9 x 23
466326	790654	24	125	3	9 x 23
466346	790784	30	65	2	9 x 23
466352	790656	30	100	3	9 x 23
466360		36	83	3	9 x 23
466372		42	48	2	9 x 23
466384		48	50	2,4	9 x 23
466396		48/60	50	2,4(3)	9 x 23
466406		60	20	1,2	9 x 23
466416		130	20	2,6	9 x 23
466426		220	14	3	9 x 23

Edison E10 10 x 28 mm					
Cat. no.	*Impa no.*	*Voltage*	*mA*	*Watts*	*d x l mm*
466612		2,5	100	0,25	10 x 28
466616		2,5	500	1,25	10 x 28
466620		2,5	1000	2,5	10 x 28
466626		3,5	200	0,7	10 x 28
466632		4	300	1,2	10 x 28
466636	790513	4	600	2,4	10 x 28
466652		6	100	0,6	10 x 28
466658	790514	6	250	1,5	10 x 28
466662		6	333	2	10 x 28
466670		6	830	5	10 x 28
466682		6,3	320	2	10 x 28
466694	790501	6/7		1	10 x 28

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continuation

Edison E10 10 x 28 mm

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
466710	790502	7	300	2,1	10 x 28
466726		10	50	0,5	10 x 28
466742	790503	12	100	1,2	10 x 28
466746	790529	12	165	2	10 x 28
466750		12	183	2,2	10 x 28
466754		12	250	3	10 x 28
466758		12	415	5	10 x 28
466772	790504	18	110	2	10 x 28
466786	790539	24	50	12	10 x 28
466790	790505	24	80	2	10 x 28
466794		24	100	2,4	10 x 28
466798	790557	24	125	3	10 x 28
466802		24	170	4	10 x 28
466806	790783	24	210	5	10 x 28
466822	790506	24/30		2	10 x 28
466832		28	70	2	10 x 28
466842	790258	30	40	1,2	10 x 28
466846		30	50	1,5	10 x 28
466850	790565	30	65	2	10 x 28
466854	790507	30	100	3	10 x 28
466866		36	55	2	10 x 28
466876		42	70	3	10 x 28
466892	790512	48	50	2,4	10 x 28
466896		48	60	3	10 x 28
466900	790508	48	80	4	10 x 28
466922		48/60		3	10 x 28
466926		48/60		4	10 x 28
466936		60	20	1,2	10 x 28
466940	790567	60	33	2	10 x 28
466944	790509	60	50	3	10 x 28
466948		60	85	5	10 x 28
466962	790510	130	20	2,6	10 x 28
466972		160	20	3,2	10 x 28
466986	790511	230	13	3	10 x 28
466990		230	18	4	10 x 28

MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

Edison E12 13 x 33 mm

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
467334	790516	6,3	310	2	13 x 33
467344	790518	12	167	2	13 x 33
467354	790519	18	110	2	13 x 33
467364	790520	24	110	3	13 x 33
467374	790521	28	70	2	13 x 33
467384	790522	30	65	2	13 x 33
467388		30	167	5	13 x 33
467394	790523	48	63	3	13 x 33
467396		48	100	5	13 x 33
467404	790524	60	34	2	13 x 33
467414		110	19	2	13 x 33
467418		110	27	3	13 x 33
467424	790525	130	46	6	13 x 33
467434	790526	220	23	5	13 x 33

Edison E12 15 x 45 mm

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
467512	790532	12	250	3	15 x 45
467522	790534	24	110	3	15 x 45
467524	790546	24	200	5	15 x 45
467532	790535	28	110	3	15 x 45
467546	790536	30	167	5	15 x 45
467552	790549	48	100	5	15 x 45
467562	790537	130	40	6	15 x 45
467582	790538	240	25	6	15 x 45

Edison E12 20 x 47 mm

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
467626		28	110	3	20 x 47
467646	790550	60	100	6	20 x 47
467666	790552	110/140		6/10	20 x 47
467676	790553	130	154	20	20 x 47
467686	790555	240	42	10	20 x 47

MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

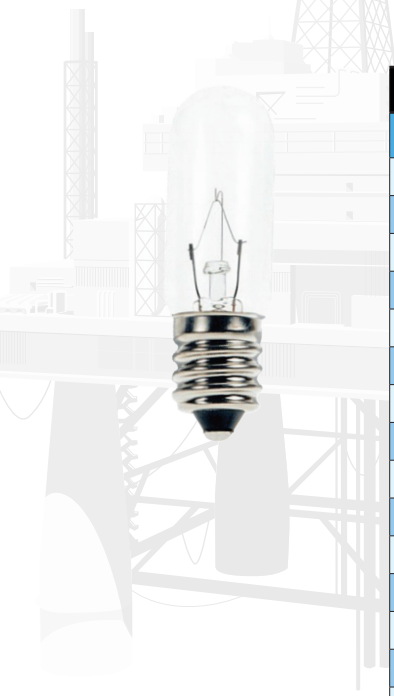
Edison E14 14 x 30 mm				
Cat. no.	*Voltage*	*mA*	*Watts*	*d x l mm*
468022	6	180	1,1	14 x 30
468028	6	850	5	14 x 30
468042	12	165	2	14 x 30
468062	24	80	2	14 x 30
468068	24	210	5	14 x 30
468082	36	55	2	14 x 30
468102	48	60	3	14 x 30
468114	48/60		1,2	14 x 30
468122	60	50	3	14 x 30
468128	60	80	5	14 x 30
468162	220	14	3	14 x 30
468182	220/260		5(7)	14 x 30

Edison E14 16 x 35 mm			
Cat. no.	*Voltage*	*Watts*	*d x l mm*
468302	30	3	16 x 35
468306	30	5	16 x 35
468312	36	3	16 x 35
468316	36	5	16 x 35
468332	48	3	16 x 35
468336	48	5	16 x 35
468356	60	5	16 x 35
468366	80	5	16 x 35
468370	110/140	3(5)	16 x 35
468376	160	5	16 x 35
468396	240	5(7)	16 x 35
468416	260	5	16 x 35

Edison E14 16 x 48 mm			
Cat. no.	*Voltage*	*Watts*	*d x l mm*
468570	220/260	6/10	16 x 48
468572	220/260	6/10	16 x 48

MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**



Edison E14 16 x 52 mm				
Cat. no.	***Impa no.***	***Voltage***	***Watts***	***d x l mm***
468624		6	5	16 x 52
468642		12	3	16 x 52
468646		12	5	16 x 52
468650		12	10	16 x 52
468652		12	15	16 x 52
468672	790568	24	5	16 x 52
468680		24	10	16 x 52
468684		24	15	16 x 52
468702		24/30	3(5)	16 x 52
468708		24/30	6(10)	16 x 52
468726		36	5	16 x 52
468742		48/60	3(5)	16 x 52
468754		60	5	16 x 52
468758		60	8	16 x 52
468762		60	10	16 x 52
468772		65/95	6(10)	16 x 52
468784		130	5	16 x 52
468794	790569	110/140	5(7)	16 x 52
468798	790569	110/140	6(10)	16 x 52
468814		240	10	16 x 52
468818	790571	240	15	16 x 52
468834		220/260	5(7)	16 x 52
468848	790570	220/260	6(10)	16 x 52
468862		380	10	16 x 52

Puller for indicator lamp	
Cat. no.	
468904	Lamp Puller/Extractor 5-10 mm
468906	Lamp Puller/Extractor 9-15 mm
468910	Lamp Puller/Extractor set 9 pcs, 3,17 till 15mm

Telephone Lamps T4,5 x 16 mm					
Cat. no.	*Impa no.*	*Voltage*	*mA*	*Cap*	*d x l mm*
470210	790821	6	20	T - 4,5	4,5 x 16
470216	790822	6	40	T - 4,5	4,5 x 16
470218		6	50	T - 4,5	4,5 x 16
470230	790823	12	20	T - 4,5	4,5 x 16
470236	790824	12	40	T - 4,5	4,5 x 16
470238		12	50	T - 4,5	4,5 x 16
470242		12	100	T - 4,5	4,5 x 16
470250	790825	24	20	T - 4,5	4,5 x 16
470256	790826	24	40	T - 4,5	4,5 x 16
470258	790827	24	50	T - 4,5	4,5 x 16
470270		28	20	T - 4,5	4,5 x 16
470290		30	20	T - 4,5	4,5 x 16
470296	790828	30	40	T - 4,5	4,5 x 16
470312		32	33	T - 4,5	4,5 x 16
470332		36	20	T - 4,5	4,5 x 16
470352		48	20	T - 4,5	4,5 x 16
470372		60	20	T - 4,5	4,5 x 16

Telephone Lamps T4,6 x 22 mm					
Cat. no.	*Impa no.*	*Voltage*	*mA*	*Cap*	*d x l mm*
470510	790829	6	20	T - 4,6	4,6 x 22
470516	790830	6	40	T - 4,6	4,6 x 22
470518		6	50	T - 4,6	4,6 x 22
470524		6	200	T - 4,6	4,6 x 22
470540	790831	12	20	T - 4,6	4,6 x 22
470546	790832	12	40	T - 4,6	4,6 x 22
470552		12	100	T - 4,6	4,6 x 22
470570	790750	24	20	T - 4,6	4,6 x 22
470576	790751	24	40	T - 4,6	4,6 x 22
470578	790833	24	50	T - 4,6	4,6 x 22
470596		28	40	T - 4,6	4,6 x 22

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MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

continuation

Telephone Lamps T4,6 x 22 mm

Cat. no.	Impa no.	Voltage	mA	Cap	d x l mm
470610	790752	30	20	T - 4,6	4,6 x 22
470616	790753	30	40	T - 4,6	4,6 x 22
470618		30	50	T - 4,6	4,6 x 22
470630	790834	36	20	T - 4,6	4,6 x 22
470650	790835	48	20	T - 4,6	4,6 x 22
470670	790836	60	20	T - 4,6	4,6 x 22

Telephone Lamps T5,5 x 22 mm

Cat. no.	Impa no.	Voltage	mA	Cap	d x l mm
470816	790837	6	40	T - 5,5K	5,5 x 22
470826		6	200	T - 5,5K	5,5 x 22
470840		12	20	T - 5,5K	5,5 x 22
470848	790838	12	50	T - 5,5K	5,5 x 22
470854		12	100	T - 5,5K	5,5 x 22
470870	790839	24	20	T - 5,5K	5,5 x 22
470876		24	40	T - 5,5K	5,5 x 22
470878	790840	24	50	T - 5,5K	5,5 x 22
470896		28	40	T - 5,5K	5,5 x 22
470898		28	50	T - 5,5K	5,5 x 22
470910		30	20	T - 5,5K	5,5 x 22
470916	790841	30	40	T - 5,5K	5,5 x 22
470918	790841	30	50	T - 5,5K	5,5 x 22
470930		36	20	T - 5,5K	5,5 x 22
470936		36	40	T - 5,5K	5,5 x 22
470950		48	20	T - 5,5K	5,5 x 22
470952		48	30	T - 5,5K	5,5 x 22
470960		60	20	T - 5,5K	5,5 x 22

MINIATURE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

Telephone Lamps T5,5 x 30 mm					
Cat. no.	*Impa no.*	*Voltage*	*mA*	*Cap*	*d x l mm*
471020		6	20	T - 5,5	5,5 x 30
471026	790842	6	40	T - 5,5	5,5 x 30
471028		6	50	T - 5,5	5,5 x 30
471036	790843	6	200	T - 5,5	5,5 x 30
471050	790844	12	20	T - 5,5	5,5 x 30
471056	790845	12	40	T - 5,5	5,5 x 30
471058	790845	12	50	T - 5,5	5,5 x 30
471062	790846	12	100	T - 5,5	5,5 x 30
471082		18	25	T - 5,5	5,5 x 30
471090	790756	24	20	T - 5,5	5,5 x 30
471092		24	25	T - 5,5	5,5 x 30
471094		24	30	T - 5,5	5,5 x 30
471096	790847	24	40	T - 5,5	5,5 x 30
471098	790757	24	50	T - 5,5	5,5 x 30
471100	790848	24	80	T - 5,5	5,5 x 30
471126	790849	28	40	T - 5,5	5,5 x 30
471128	790850	28	50	T - 5,5	5,5 x 30
471140	790758	30	20	T - 5,5	5,5 x 30
471142		30	30	T - 5,5	5,5 x 30
471146	790759	30	40	T - 5,5	5,5 x 30
471148	790760	30	50	T - 5,5	5,5 x 30
471162		32	33	T - 5,5	5,5 x 30
471180	790851	36	20	T - 5,5	5,5 x 30
471186	790852	36	40	T - 5,5	5,5 x 30
471188	790853	36	50	T - 5,5	5,5 x 30
471190	790854	48	20	T - 5,5	5,5 x 30
471192	790855	48	25	T - 5,5	5,5 x 30
471196	790856	48	40	T - 5,5	5,5 x 30
471210	790858	60	20	T - 5,5	5,5 x 30
471214		60	30	T - 5,5	5,5 x 30
471216		60	40	T - 5,5	5,5 x 30
471218		60	50	T - 5,5	5,5 x 30
471230		70	20	T - 5,5	5,5 x 30
471236		70	40	T - 5,5	5,5 x 30

TELEPHONE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

Telephone Lamps T6,5 x 44 mm French

Cat. no.	Voltage	mA	Cap	d x l mm
471256	6	40	T - 6,5	6,5 x 44
471268	12	50	T - 6,5	6,5 x 44
471276	24	40	T - 6,5	6,5 x 44
471286	30	40	T - 6,5	6,5 x 44
471290	36	20	T - 6,5	6,5 x 44
471300	60	20	T - 6,5	6,5 x 44
471306	60	40	T - 6,5	6,5 x 44

Telephone Lamps T6,8 x 44 mm

Cat. no.	Voltage	mA	Cap	d x l mm
471410	6	20	T - 6,8	6,8 x 44
471416	6	40	T - 6,8	6,8 x 44
471418	6	50	T - 6,8	6,8 x 44
471420	6	60	T - 6,8	6,8 x 44
471436	6	200	T - 6,8	6,8 x 44
471440	12	20	T - 6,8	6,8 x 44
471446	12	40	T - 6,8	6,8 x 44
471448	12	50	T - 6,8	6,8 x 44
471452	12	100	T - 6,8	6,8 x 44
471460	24	20	T - 6,8	6,8 x 44
471462	24	25	T - 6,8	6,8 x 44
471464	24	35	T - 6,8	6,8 x 44
471466	24	40	T - 6,8	6,8 x 44
471468	24	50	T - 6,8	6,8 x 44
471470	24	80	T - 6,8	6,8 x 44
471472	24	100	T - 6,8	6,8 x 44
471482	28	25	T - 6,8	6,8 x 44
471486	28	40	T - 6,8	6,8 x 44
471488	28	45	T - 6,8	6,8 x 44
471490	28	50	T - 6,8	6,8 x 44
471492	28	80	T - 6,8	6,8 x 44

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TELEPHONE INDICATOR LAMPS

Clear **also all colours available** **hand painted**

continuation

Telephone Lamps T6,8 x 44 mm

Cat. no.	Voltage	mA	Cap	d x l mm
471510	30	20	T - 6,8	6,8 x 44
471512	30	25	T - 6,8	6,8 x 44
471516	30	40	T - 6,8	6,8 x 44
471518	30	50	T - 6,8	6,8 x 44
471556	38	40	T - 6,8	6,8 x 44
471560	48	20	T - 6,8	6,8 x 44
471562	48	25	T - 6,8	6,8 x 44
471566	48	40	T - 6,8	6,8 x 44
471568	48	50	T - 6,8	6,8 x 44
471580	60	20	T - 6,8	6,8 x 44
471586	60	40	T - 6,8	6,8 x 44
471588	60	50	T - 6,8	6,8 x 44
471600	70	20	T - 6,8	6,8 x 44
471606	70	40	T - 6,8	6,8 x 44

Telephone Lamps PSB T7,2 x 28 mm

Cat. no.	Voltage	mA	Cap	d x l mm
471708	6	140	T - 7,2	7,2 x 28
471718	12	170	T - 7,2	7,2 x 28
471728	24	73	T - 7,2	7,2 x 28
471738	28	40	T - 7,2	7,2 x 28
471748	48	53	T - 7,2	7,2 x 28
471758	60	50	T - 7,2	7,2 x 28
471768	120	25	T - 7,2	7,2 x 28

Puller for Telephone Indicator lamp

Cat. no.	
468904	Lamp Puller/Extractor 5-10 mm

LED INDUSTRIAL INDICATOR LAMPS

LED Industrial indicator lamp Bayonet Ba9s 10 x 28				
Cat. no.	Voltage		Colour	d x l mm
478052	24/28	AC/DC	red	10 x 28
478054	24/28	AC/DC	blue	10 x 28
478056	24/28	AC/DC	green	10 x 28
478058	24/28	AC/DC	white	10 x 28
478060	24/28	AC/DC	yellow	10 x 28
478062	120	AC/DC	red	10 x 28
478064	120	AC/DC	blue	10 x 28
478066	120	AC/DC	green	10 x 28
478068	120	AC/DC	white	10 x 28
478070	120	AC/DC	yellow	10 x 28
478072	230	AC/DC	red	10 x 28
478074	230	AC/DC	blue	10 x 28
478076	230	AC/DC	green	10 x 28
478078	230	AC/DC	white	10 x 28
478080	230	AC/DC	yellow	10 x 28

LED Industrial indicator lamp Edison E10 10 x 28				
Cat. no.	Voltage		Colour	d x l mm
478102	24/28	AC/DC	red	10 x 28
478104	24/28	AC/DC	blue	10 x 28
478106	24/28	AC/DC	green	10 x 28
478108	24/28	AC/DC	white	10 x 28
478110	24/28	AC/DC	yellow	10 x 28
478112	120	AC/DC	red	10 x 28
478114	120	AC/DC	blue	10 x 28
478116	120	AC/DC	green	10 x 28
478118	120	AC/DC	white	10 x 28
478120	120	AC/DC	yellow	10 x 28
478122	230	AC/DC	red	10 x 28
478124	230	AC/DC	blue	10 x 28
478126	230	AC/DC	green	10 x 28
478128	230	AC/DC	white	10 x 28
478130	230	AC/DC	yellow	10 x 28

Single-led Lamp Bi-pin T1 3/4 5 x 14				
Cat. no.	Voltage		Colour	d x l mm
				l = without pin
475110	6	DC	red	5 x 14
475112	6	DC	blue	5 x 14
475114	6	DC	green	5 x 14
475116	6	DC	white	5 x 14
475118	6	DC	yellow	5 x 14
475130	12	DC	red	5 x 14
475132	12	DC	blue	5 x 14
475134	12	DC	green	5 x 14
475136	12	DC	white	5 x 14
475138	12	DC	yellow	5 x 14
475170	24/28	DC	red	5 x 14
475172	24/28	DC	blue	5 x 14
475174	24/28	DC	green	5 x 14
475176	24/28	DC	white	5 x 14
475178	24/28	DC	yellow	5 x 14

Single-led Lamp Midget Flanged T1 3/4 6 x 16				
Cat. no.	Voltage		Colour	d x l mm
475210	6	DC	red	6 x 16
475212	6	DC	blue	6 x 16
475214	6	DC	green	6 x 16
475216	6	DC	white	6 x 16
475218	6	DC	yellow	6 x 16
475230	12	DC	red	6 x 16
475232	12	DC	blue	6 x 16
475234	12	DC	green	6 x 16
475236	12	DC	white	6 x 16
475238	12	DC	yellow	6 x 16
475270	24/28	DC	red	6 x 16
475272	24/28	DC	blue	6 x 16
475274	24/28	DC	green	6 x 16
475276	24/28	DC	white	6 x 16
475278	24/28	DC	yellow	6 x 16

Single-led Lamp Midget Grooved T1 3/4 6 x 16				
Cat. no.	*Voltage*		*Colour*	*d x l mm*
475310	6	DC	red	6 x 16
475312	6	DC	blue	6 x 16
475314	6	DC	green	6 x 16
475316	6	DC	white	6 x 16
475318	6	DC	yellow	6 x 16
475330	12	DC	red	6 x 16
475332	12	DC	blue	6 x 16
475334	12	DC	green	6 x 16
475336	12	DC	white	6 x 16
475338	12	DC	yellow	6 x 16
475370	24/28	DC	red	6 x 16
475372	24/28	DC	blue	6 x 16
475374	24/28	DC	green	6 x 16
475376	24/28	DC	white	6 x 16
475378	24/28	DC	yellow	6 x 16

Single-led Lamp Wedge Base T5 W2 x 3,6d 5 x 20				
Cat. no.	***Voltage***		***Colour***	***d x l mm***
475410	6	DC	red	5 x 20
475412	6	DC	blue	5 x 20
475414	6	DC	green	5 x 20
475416	6	DC	white	5 x 20
475418	6	DC	yellow	5 x 20
475430	12	DC	red	5 x 20
475432	12	DC	blue	5 x 20
475434	12	DC	green	5 x 20
475436	12	DC	white	5 x 20
475438	12	DC	yellow	5 x 20
475450	24/28	DC	red	5 x 20
475452	24/28	DC	blue	5 x 20
475454	24/28	DC	green	5 x 20
475456	24/28	DC	white	5 x 20
475458	24/28	DC	yellow	5 x 20

SINGLE-LED LAMPS

Single-led Lamp Bayonet Ba7s 7 x 20				
Cat. no.	***Voltage***		***Colour***	***d x l mm***
475510	6	DC	red	7 x 20
475512	6	DC	blue	7 x 20
475514	6	DC	green	7 x 20
475516	6	DC	white	7 x 20
475518	6	DC	yellow	7 x 20
475530	12	DC	red	7 x 20
475532	12	DC	blue	7 x 20
475534	12	DC	green	7 x 20
475536	12	DC	white	7 x 20
475538	12	DC	yellow	7 x 20
475570	24/28	AC/DC	red	7 x 20
475572	24/28	AC/DC	blue	7 x 20
475574	24/28	AC/DC	green	7 x 20
475576	24/28	AC/DC	white	7 x 20
475578	24/28	AC/DC	yellow	7 x 20

Single-led Lamp Bayonet Ba9s 10 x 24				
Cat. no.	***Voltage***		***Colour***	***d x l mm***
475610	6	AC/DC	red	10 x 24
475612	6	AC/DC	blue	10 x 24
475614	6	AC/DC	green	10 x 24
475616	6	AC/DC	white	10 x 24
475618	6	AC/DC	yellow	10 x 24
475630	12	AC/DC	red	10 x 24
475632	12	AC/DC	blue	10 x 24
475634	12	AC/DC	green	10 x 24
475636	12	AC/DC	white	10 x 24
475638	12	AC/DC	yellow	10 x 24
475670	24/28	AC/DC	red	10 x 24
475672	24/28	AC/DC	blue	10 x 24
475674	24/28	AC/DC	green	10 x 24
475676	24/28	AC/DC	white	10 x 24
475678	24/28	AC/DC	yellow	10 x 24

Single-led Lamp Edison E10 10 x 24				
Cat. no.	**Voltage**		**Colour**	**d x l mm**
475710	6	AC/DC	red	10 x 24
475712	6	AC/DC	blue	10 x 24
475714	6	AC/DC	green	10 x 24
475716	6	AC/DC	white	10 x 24
475718	6	AC/DC	yellow	10 x 24
475730	12	AC/DC	red	10 x 24
475732	12	AC/DC	blue	10 x 24
475734	12	AC/DC	green	10 x 24
475736	12	AC/DC	white	10 x 24
475738	12	AC/DC	yellow	10 x 24
475770	24/28	AC/DC	red	10 x 24
475772	24/28	AC/DC	blue	10 x 24
475774	24/28	AC/DC	green	10 x 24
475776	24/28	AC/DC	white	10 x 24
475778	24/28	AC/DC	yellow	10 x 24

Single-led Lamp Edison E12 16 x 30				
Cat. no.	**Voltage**		**Colour**	**d x l mm**
			With 3 single LEDs	
475810	6	AC/DC	red	16 x 30
475812	6	AC/DC	blue	16 x 30
475814	6	AC/DC	green	16 x 30
475816	6	AC/DC	white	16 x 30
475818	6	AC/DC	yellow	16 x 30
475830	12	AC/DC	red	16 x 30
475832	12	AC/DC	blue	16 x 30
475834	12	AC/DC	green	16 x 30
475836	12	AC/DC	white	16 x 30
475838	12	AC/DC	yellow	16 x 30
475870	24/28	AC/DC	red	16 x 30
475872	24/28	AC/DC	blue	16 x 30
475874	24/28	AC/DC	green	16 x 30
475876	24/28	AC/DC	white	16 x 30
475878	24/28	AC/DC	yellow	16 x 30

Single-led Lamp Telephone-type T5,5 x 30 mm

Cat. no.	Voltage		Colour	d x l mm
475910	6	DC	red	5,5 x 30
475912	6	DC	blue	5,5 x 30
475914	6	DC	green	5,5 x 30
475916	6	DC	white	5,5 x 30
475918	6	DC	yellow	5,5 x 30
475930	12	DC	red	5,5 x 30
475932	12	DC	blue	5,5 x 30
475934	12	DC	green	5,5 x 30
475936	12	DC	white	5,5 x 30
475938	12	DC	yellow	5,5 x 30
475970	24/28	AC/DC	red	5,5 x 30
475972	24/28	AC/DC	blue	5,5 x 30
475974	24/28	AC/DC	green	5,5 x 30
475976	24/28	AC/DC	white	5,5 x 30
475978	24/28	AC/DC	yellow	5,5 x 30

Single-led Lamp Telephone-type T6,8 x 44 mm

Cat. no.	Voltage		Colour	d x l mm
476010	6	DC	red	6,8 x 44
476012	6	DC	blue	6,8 x 44
476014	6	DC	green	6,8 x 44
476016	6	DC	white	6,8 x 44
476018	6	DC	yellow	6,8 x 44
476030	12	AC/DC	red	6,8 x 44
476032	12	AC/DC	blue	6,8 x 44
476034	12	AC/DC	green	6,8 x 44
476036	12	AC/DC	white	6,8 x 44
476038	12	AC/DC	yellow	6,8 x 44
476070	24/28	AC/DC	red	6,8 x 44
476072	24/28	AC/DC	blue	6,8 x 44
476074	24/28	AC/DC	green	6,8 x 44
476076	24/28	AC/DC	white	6,8 x 44
476078	24/28	AC/DC	yellow	6,8 x 44

NEON INDICATOR LAMPS

Neon Telephone-type T5,5 x 31 mm				
Cat. no.	Voltage	Material	Glass	d x l mm
477130	110	glass	Clear	5,5 x 31
477135	220	glass	Clear	5,5 x 31

Neon Telephone-type T6,8 x 44 mm				
Cat. no.	Voltage	Material	Glass	d x l mm
477150	110	glass	Clear	6,8 x 44
477155	220	glass	Clear	6,8 x 44

Neon Midget Flanged T1 3/4				
Cat. no.	Voltage	Material	Glass	d x l mm
477170	110	glass	Clear	5 x 16
477175	220	glass	Clear	5 x 16

Neon Midget Grooved T1 3/4				
Cat. no.	Voltage	Material	Glass	d x l mm
477190	110	glass	Clear	5 x 16
477195	220	glass	Clear	5 x 16

Neon Lamp Bayonet Ba7s 7 x 20 mm				
Cat. no.	Voltage	Material	Glass	d x l mm
477210	110	glass	Clear	7 x 20
477215	220	glass	Clear	7 x 20

NEON INDICATOR LAMPS

Neon Lamp Bayonet Ba9s 9 x 25 mm				
Cat. no.	*Voltage*	*Material*	*Glass*	*d x l mm*
477230	110	PVC	Clear	9 x 25
477235	220	PVC	Clear	9 x 25
477240	230	glass	Clear	9 x 25
477245	380	glass	Clear	9 x 25

Neon Lamp Bayonet Ba9s 9 x 28 mm				
Cat. no.	*Voltage*	*Material*	*Glass*	*d x l mm*
477250	130	PVC	Clear	9 x 28
477255	240	PVC	Clear	9 x 28
477260	220	glass	Clear	9 x 28
477265	220	green	Clear	9 x 28
477270	380	PVC	Clear	9 x 28

Neon Lamp Bayonet Ba15d 14 x 30 mm				
Cat. no.	*Voltage*	*Material*	*Glass*	*d x l mm*
477315	220	PVC	Clear	14 x 30
477320	220	glass	Clear	14 x 30
477325	380	PVC	Clear	14 x 30

Neon Lamp Bayonet Ba15d 16 x 50 mm				
Cat. no.	*Voltage*	*Material*	*Glass*	*d x l mm*
477415	220	PVC	Clear	16 x 50
477420	380	PVC	Clear	16 x 50
477425	500	PVC	Clear	16 x 50

Neon Lamp Bayonet Ba15s 16 x 52 mm				
Cat. no.	*Voltage*	*Material*	*Glass*	*d x l mm*
477470	220	glass	Clear	16 x 52

NEON INDICATOR LAMPS

Neon Lamp Bayonet B22d 27 x 60 mm				
Cat. no.	***Voltage***	***Material***	***Glass***	***d x l mm***
477515	220	glass	Clear	27 x 60

Neon Lamp Edison E10 10 x 25 mm				
Cat. no.	***Voltage***	***Material***	***Glass***	***d x l mm***
477540	110	PVC	Clear	10 x 25
477545	220	PVC	Clear	10 x 25
477550	380	PVC	Clear	10 x 25

Neon Lamp Edison E10 10 x 28 mm				
Cat. no.	***Voltage***	***Material***	***Glass***	***d x l mm***
477570	110	PVC	Clear	10 x 28
477575	220	PVC	Clear	10 x 28
477595	380	PVC	Clear	10 x 28

Neon Lamp Edison E12 15 x 38 mm				
Cat. no.	***Voltage***	***Material***	***Glass***	***d x l mm***
477610	110-130	glass	Clear	15 x 38
477615	220-230	glass	Clear	15 x 38

Neon Lamp Edison E14 15 x 30 mm				
Cat. no.	***Voltage***	***Material***	***Glass***	***d x l mm***
477660	110	PVC	clear	15 x 30
477665	220	PVC	clear	15 x 30
477685	380	glass	clear	15 x 30

NEON INDICATOR LAMPS

Neon Lamp Edison E14 16 x 52 mm				
Cat. no.	Voltage	Material	Glass	d x l mm
477710	110	PVC	Clear	16 x 52
477715	220	PVC	Clear	16 x 52
477725	380	glass	Clear	16 x 52

Neon Lamp Edison E27 27 x 60 mm				
Cat. no.	Voltage	Material	Glass	d x l mm
477740	220	glass	Clear	27 x 60

INDICATOR / SPHERICAL LAMPS

Spherical Lamps Ba9s 11 x 23 mm					
Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
480212		2,4	1250	3	11 x 23
480218		4	300	1,2	11 x 23
480224		6	50	0,3	11 x 23
480230		6	100	0,6	11 x 23
480236		6	180	1,1	11 x 23
480242		6	250	2,1	11 x 23
480312		12	100	1,2	11 x 23
408318	790672	12	180	2	11 x 23
408328	790673	18	100	1,8	11 x 23
408338	790675	24	50	1,2	11 x 23
408344	790674	24	125	3	11 x 23
408354		30	40	1,2	11 x 23

Spherical Lamps Ba9s 15 x 29 mm					
Cat. no.		*Voltage*	*mA*	*Watts*	*d x l mm*
480412		2,5	500	1,25	15 x 29
480418		2,5	1000	2,5	15 x 29
480428		6	500	3	15 x 29
480438		7	410	2,8	15 x 29
480448		12	400	5	15 x 29
480458		24	125	3	15 x 29
480464		24	208	5	15 x 29
483474		30	165	3	15 x 29

Spherical Lamps Ba15d 18 x 35 mm					
Cat. no.	*Impa no.*	*Voltage*	*mA*	*Watts*	*d x l mm*
480508		2,5	700	1,75	18 x 35
480526		6		3	18 x 35
480532		6		5	18 x 35
480538		6		10	18 x 35
480544		6		15	18 x 35
480554		12		5	18 x 35
480560	790682	12		10	18 x 35
480566		12		15	18 x 35
480576	790684	24		5	18 x 35
480582	790685	24		10	18 x 35
480588		24		15	18 x 35
480594		24		25	18 x 35

Spherical Lamps Ba15s 18 x 35 mm

Cat. no.	Voltage	Watts	d x l mm
480612	6	3	18 x 35
480618	6	5	18 x 35
480624	6	10	18 x 35
480630	6	15	18 x 35
480640	12	5	18 x 35
480646	12	10	18 x 35
480652	12	15	18 x 35
480662	24	5	18 x 35
480668	24	10	18 x 35
483074	24	15	18 x 35

Spherical Lamps E10 11 x 24 mm

Cat. no.	Impa no.	Voltage	mA	Watts	d x l mm
480712		1,5	150	0,23	11 x 24
480722		2,5	200	0,5	11 x 24
480732		3,8	300	1,14	11 x 24
480742		4	400	1,6	11 x 24
480744		4	500	2	11 x 24
480752		6	50	0,3	11 x 24
480758		6	100	0,6	11 x 24
480764		6	333	2	11 x 24
480774		12	100	1,2	11 x 24
480780	790652	12	250	3	11 x 24
480790		14	60	0,84	11 x 24
480800	790658	18	100	1,8	11 x 24
480810	790655	24	50	1,2	11 x 24
480816	790782	24	85	2	11 x 24
480822	790654	24	125	3	11 x 24
480832	790656	28	50	1,4	11 x 24
480842		30	100	3	11 x 24

Spherical Lamps E10 15 x 29 mm				
Cat. no.	*Voltage*	*mA*	*Watts*	*d x l mm*
480912	2,5	500	1,25	15 x 29
480918	4	600	2,4	15 x 29
480922	4	1000	4	15 x 29
480930	6	400	2,4	15 x 29
480932	6	500	3	15 x 29
480942	12	250	3	15 x 29
480952	24	210	5	15 x 29
480962	30	165	5	15 x 29
480974	48	100	5	15 x 29

Spherical Lamps E14 18 x 35 mm			
Cat. no.	*Voltage*	*Watts*	*d x l mm*
480982	24	5	18 x 35
480992	60	5	18 x 35

TORPEDO / FESTOON LAMPS

Clear **also all colours available** **hand painted**

Festoon Lamp S6

Cat. no.	Voltage	Watts	Cap	d x l mm
481210	24	3	S6	6 x 24
481218	26	1	S6	6 x 24
481226	28	2	S6	6 x 24
481240	24	1,2	S6	6 x 26
481270	65	3	S6	6 x 31
481292	12	3	S6	6 x 36
481300	24	3	S6	6 x 37
481302	24	3	S6	6 x 37
481308	36	3	S6	6 x 37

Festoon Lamp S7

Cat. no.	Voltage	Watts	Cap	d x l mm
481400	15	3	S7	8 x 28
481430	6	3	S7	8 x 31
481438	12	3	S7	8 x 31
481446	24	3	S7	8 x 31
481454	60	3	S7	8 x 31
481484	6	3	S7	8 x 36
481492	12	3	S7	8 x 36
481500	24	3	S7	8 x 36
481508	36	3	S7	8 x 36
481538	12	3	S7	8 x 39
481546	24	5	S7	8 x 39

TORPEDO / FESTOON LAMPS

Clear **also all colours available** **hand painted**

Festoon Lamp S8,5				
Cat. no.	***Voltage***	***Watts***	***Cap***	***d x l mm***
481576	6	5	S8,5	11 x 39
481584	12	5	S8,5	11 x 39
481592	12	10	S8,5	11 x 39
481600	12	15	S8,5	11 x 39
481608	24	3	S8,5	11 x 39
481616	24	5	S8,5	11 x 39
481624	30	3	S8,5	11 x 39
481632	36	3	S8,5	11 x 39
481640	60	3	S8,5	11 x 39
481670	12	5	S8,5	11 x 42
481678	24	5	S8,5	11 x 42
481708	6	10	S8,5	11 x 44
481716	12	5	S8,5	11 x 44
481724	12	10	S8,5	11 x 44
481732	24	3	S8,5	11 x 44
481740	24	5	S8,5	11 x 44
481748	24	10	S8,5	11 x 44
481756	60	5	S8,5	11 x 44

481786	6	15	S8,5	15 x 44
481794	12	10	S8,5	15 x 44
481802	12	15	S8,5	15 x 44
481810	24	3	S8,5	15 x 44
481818	24	5	S8,5	15 x 44
481826	24	15	S8,5	15 x 44
481834	24	18	S8,5	15 x 44
481842	60	3	S8,5	15 x 44
481850	60	5	S8,5	15 x 44

Car Lamp Halogen H1				
Cat. no.	Voltage	Watts	Cap	d x l mm
483204	12	55	P14,5s	9 x 55
483208	12	100	P14,5s	9 x 55
483212	24	70	P14,5s	9 x 55

Car Lamp Halogen H2				
Cat. no.	Voltage	Watts	Cap	d x l mm
483224	12	55	X511	9 x 31
483228	12	100	X511	9 x 31
483232	24	70	X511	9 x 31

Car Lamp Halogen H3				
Cat. no.	Voltage	Watts	Cap	d x l mm
483244	6	55	PK22s	11 x 42
483252	12	55	PK22s	11 x 42
483256	12	100	PK22s	11 x 42
483260	24	70	PK22s	11 x 42

Car Lamp Halogen H4				
Cat. no.	Voltage	Watts	Cap	d x l mm
483274	12	60/55	P43T	17 x 75
483282	12	100/80	P43T	17 x 75
483290	24	75/70	P43T	17 x 75

Car Lamp Halogen H7				
Cat. no.	Voltage	Watts	Cap	d x l mm
483304	12	55	PX26d	11,6 x 60
483312	24	70	PX26d	11,6 x 60

Car Lamp Halogen Ba15s				
Cat. no.	Voltage	Watts	Cap	d x l mm
483370	12	55	Ba15s	10 x 42
483376	24	70	Ba15s	10 x 42

Car Lamp P45T				
Cat. no.	Voltage	Watts	Cap	d x l mm
483424	12	45/40	P45T	41 x 75
483432	24	55/50	P45T	41 x 75

Car Lamp Ba15d				
Cat. no.	Voltage	Watts	Cap	d x l mm
483512	6	21	Ba15d	25 x 47
483530	12	21	Ba15d	25 x 47
483538	12	35	Ba15d	25 x 47
483550	24	21	Ba15d	25 x 47
483562	24	45	Ba15d	25 x 47

Car Lamp Ba15s				
Cat. no.	Voltage	Watts	Cap	d x l mm
483626	12	15	Ba15s	25 x 47
483630	12	21	Ba15s	25 x 47
483638	12	35	Ba15s	35 x 60
483644	12	45	Ba15s	35 x 60
483650	24	21	Ba15s	25 x 47
483654	24	25	Ba15s	25 x 47
483662	24	45	Ba15s	35 x 60
483670	28	26	Ba15s	25 x 47

CAR LAMPS

Car Lamp Bay15d				
Cat. no.	Voltage	Watts	Cap	d x l mm
483812	6	21/5	Bay15d	25 x 47
483820	12	21/5	Bay15d	25 x 47
483828	24	21/5	Bay15d	25 x 47

Car Lamp Ba20s				
Cat. no.	Voltage	Watts	Cap	d x l mm
483924	12	35	Ba20s	36 x 65
483934	24	35	Ba20s	36 x 65
483940	24	45	Ba20s	36 x 65
483946	24	50	Ba20s	36 x 65

Car Lamp Ba20d				
Cat. no.	Voltage	Watts	Cap	d x l mm
483982	12	45/40	Ba20d	36 x 70
483990	24	45/40	Ba20d	36 x 70

FLASHLIGHT LAMPS

Flashlight Lamps E10						
Cat. no.	Impa no.	Voltage	mA	Cap	Type	d x l mm
490116	792255	2,5	300	E10		11 x 24
490124	792257	3,8	300	E10		11 x 24
490132		4	550	E10	Meus1	15 x 29
490140		4,8	300	E10		11 x 24
490148		6	50	E10	FA	11 x 24
490156	792259	6	450	E10	FV	15 x 29

FLASHLIGHT LAMPS

Flashlight Lamps E10 Flashing-type					
Cat. no.	Voltage	mA	Cap	Type	d x l mm
490216	2,5	300	E10	Flashing	15 x 29

Flashlight Lamps Lens-end E10					
Cat. no.	Voltage	mA	Cap	Type	d x l mm
490312	1,1	220	E10	Lens-end	9 x 24
490314	2,2	250	E10	Lens-end	9 x 24
490316	2,5	300	E10	Lens-end	9 x 24
490324	3,7	300	E10	Lens-end	9 x 24
490334	4,8	300	E10	Lens-end	9 x 24

Flashlight Lamps Lens-end P13,5s					
Cat. no.	Voltage	mA	Cap	Type	d x l mm
490358	2,5	300	P13,5s	Lens-end	11 x 24

Flashlight Prefocus Lamps P13,5s						
Cat. no.	Impa no.	Voltage	mA	Cap	Type	d x l mm
490416	792251	2,5	500	P13,5s	PR2	11 x 30
490418		2,5	300	P13,5s	PR6	11 x 30
490424	792252	3,6	500	P13,5s	PR3	11 x 30
490426		3,7	300	P13,5s	PR7	11 x 30
490434	792253	4,8	500	P13,5s	PR13	11 x 30
490442	792250	6	500	P13,5s	PR12	11 x 30
490450	792254	7,2	500	P13,5s	PR18	11 x 30
490458		9	500	P13,5s	PR20	11 x 30

FLASHLIGHT LAMPS

Flashlight Prefocus Lamps P13,5s Krypton

Cat. no.	Voltage	mA	Cap	Type	d x l mm
490516	2,4	750	P13,5s	KPR-102	11 x 30
490524	3,6	750	P13,5s	KPR-103	11 x 30
490526	3,6	1000	P13,5s		11 x 30
490534	4,8	750	P13,5s	KPR-113	11 x 30
490542	6	500	P13,5s	KPR-112	11 x 30
490550	7,2	750	P13,5s	KPR-118	11 x 30

Flashlight Prefocus Lamps PX13,5s Xenon

Cat. no.	Voltage	mA	Cap	Type	d x l mm
490666	2,4	930	PX13,5s	XPR-2	11 x 30
490674	3,6	820	PX13,5s	XPR-3	11 x 30
490684	4,8	900	PX13,5s	XPR-13	11 x 30
490690	6,0	550	PX13,5s	XPR-12	11 x 30

Flashlight Lamps PX13,5s Halogen

Cat. no.	Voltage	mA	Cap	Type	d x l mm
490616	2,8	850	PX13,5s	HPR-52	11 x 30
490624	3,75	750	PX13,5s	HPR-41	11 x 30
490628	4,0	850	PX13,5s	HPR-53	11 x 30
490630	4,0	1000	PX13,5s	HPM-09	11 x 30
490634	4,8	500	PX13,5s	HPM-62	11 x 30
490640	6,5	670	PX13,5s		11 x 30
490650	7,2	850	PX13,5s		11 x 30

MAG-LITE™ ®

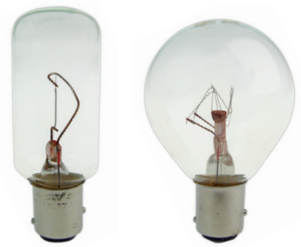
Flashlight Lamps for MAG-LITE

Cat. no.	Voltage	Description	Cap	Type
490516	2,4	for Mag-lite 2C & 2D	P13,5S	KPR-102
490524	3,6	for Mag-lite 3C & 3D	P13,5S	KPR-103
490534	4,8	for Mag-lite 4C & 4D	P13,5S	KPR-113
490542	6	for Mag-lite 5C & 5D	P13,5S	KPR-112
490550	7,2	for Mag-lite 6C & 6D	P13,5S	KPR-118
490716	2,4	for Solitair Mag-lite AAA, blister 2 pcs.	Bi-pin	LK3A001
490732	2,4	for Micro AAA & Mini Mag-lite AA, blister 2 pcs.	Bi-pin	LM2A001
490740	6	for Mag charger halogen	Bi-pin	LR00001

FLASHLIGHT LAMPS

Flashlight Lamps for PELICAN LANTARN		PELI PRODUCTS
Cat. no.	*Description*	*Type*
490816	Lampmodule for MityLite 1900C/1950	1904
490818	Lampmodule for Super PeliLite and Pocket SabreLite 1800/1820	1804
490820	Lampmodule 2304 for 2300/2340 MityLite/Plus 2AA	2304
490824	Lampmodule 2004 for Super SabreLite 2000	2004
490826	Lampmodule for Super SabreLite 2000Z1	2004Z1
490832	Lampmodule for VersaBrite 2250	2204
490836	Lampmodule for StealthLite 2400/2450	2404
490838	Lampmodule for Stealthlite 2400Z1	2404Z1
490842	Lampmodule for Heads-Up 2620	2624
490844	Lampmodule for Heads-Up 2640	2644
490846	Lampmodule for Heads-Up 2660	2664
490856	Lampmodule for Black Knight M9/7050	7054
490864	Lampmodule for Black Knight M11/8050	8054

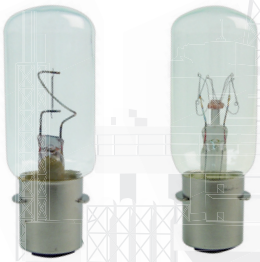
NAVIGATION LAMPS



Navigation Lamps Bay15d						
Cat. no.	*Impa no.*	*Voltage*	*Cd*	*Watts*	*d x l mm*	*approved*
500120*	790418	12	12-20	10	25 x 70	By BSH
500128*	790420	12	30	25	25 x 70	By BSH
500136*	790425	24	12-20	10	25 x 70	By BSH
500144*	790435	24	40	25	25 x 70	By BSH
500146	790435	28	40	25	25 x 70	
500152	790436	110	40	25	45 x 70	
500160		220	40	25	45 x 70	
500164	790437	220	40	25	25 x 70	

* CALEX lights

NAVIGATION LAMPS



Navigation Lamps P28s

Cat. no.	Impa no.	Voltage	Cd	Watts	d x l mm	approved
500232*	790449	24	60	40	38 x 108	By BSH
500242	790450	48	60	65	38 x 108	
500248	790431	110	50	60	38 x 108	
500252*	790431	115	50	60	38 x 108	By BSH
500258	790434	220	50	65	38 x 108	
500262*	790434	230	50	65	38 x 108	By BSH

* CALEX lights

Soren Madsen Navigation Lamps B22d

				Approx.	
Cat. no.	Impa no.	Voltage	Cd	Watts	d x l mm
500436	790447	230	35	55	38 x 110
500438		230	65	85	45 x 128

Navigation Lamps B22

				Approx.		
Cat. no.	Impa no.	Voltage	Cd	Watts	Cap	d x l mm
501312	790411	24	13	40	B22	39 x 100
501318	790439	24	26	60	B22	39 x 100
500324	790440	24	35	55	B22	39 x 100
501336	790441	24	65	80	B22	39 x 100
501348	790426	110	13	40	B22	39 x 100
501354	790427	110	26	60	B22	39 x 100
501360	790444	110	65	80	B22	39 x 100
501378	790428	220	13	40	B22	39 x 100
501384	790429	220	26	60	B22	39 x 100
501396	790448	220	65	80	B22	39 x 100

NAVIGATION LAMPS

Navigation Lamps E27

				Approx.		
Cat. no.	*Impa no.*	*Voltage*	*Cd*	*Watts*	*Cap*	*d x l mm*
501512	790401	24	13	40	E27	39 x 100
501518	790407	24	26	60	E27	39 x 100
501548	790421	110	13	40	E27	39 x 100
501554	790408	110	26	60	E27	39 x 100
501560	790409	110	65	80	E27	39 x 100
501578	790423	220	13	40	E27	39 x 100
501584	790410	220	26	60	E27	39 x 100
501596	790417	220	65	80	E27	39 x 100

ALDIS SIGNALLING LAMPS

Aldis Lamp Clear P15d

Cat. no.	*Voltage*	*Watts*	*d x l mm*
504210	12	25	40 x 60

Aldis Lamp Clear Ba20d

Cat. no.	*Voltage*	*Watts*	*d x l mm*
504110	24	35	40 x 60

Aldis Lamp Top-mirror P15d

Cat. no.	*Voltage*	*Watts*	*d x l mm*
504250	11	60	40 x 60
504258	24	60	40 x 60

Aldis Lamp Halogen G6,35 for Sanshin

Cat. no.	*Voltage*	*Watts*	*d x l mm*
504270	12	60	10 x 44
504278	24	60	10 x 44

NIFE SIGNALLING LAMPS

Nife Signalling Lamps Ba20d with side-mirror			
Cat. no.	***Voltage***	***Watts***	***d x l mm***
504310	12	100	59 x 82
504318	24	100	59 x 82
504326	110	100	59 x 82
504334	220	100	59 x 82

GYRO COMPASS / REPEATER LAMPS

Ball-lamp E14				
Cat. no.	***Voltage***	***Watts***	***Cap***	***d x l mm***
505110	24	24	Frosted	18 x 35

Sperry-lamps E10 Clear/red				
Cat. no.	***Voltage***	***Watts***	***Cap***	***d x l mm***
505152	45	8	Clear	16 x 45
505156	45	8	Red	16 x 45
505162	70	8	Clear	16 x 45
505166	70	8	Red	16 x 45

Halogen Projection Reflector Lamps GZ4 Ø 35 mm				
Cat. no.	Voltage	Watts	Code	d x l mm
520312	13,8	25	FKZ	35 x 35
520324	14	35	13165	35 x 35

Halogen Projection Reflector Lamps GY5.3 Ø 50 mm				
Cat. no.	Voltage	Watts	Code	d x l mm
520348	36	340	ERV	50 x 46
520360	82	250	EVW	50 x 46
520372	82	360	ENX	50 x 46
520384	82	410	FXL	50 x 46
520308	13,8	50	EPZ/DJT	50 x 46

Halogen Projection Reflector Lamps GX5.3 MR16 Ø 50 mm				
Cat. no.	Voltage	Watts	Code	d x l mm
520420	13,8	85	DED	50 x 46
520432	14,5	90	EPX/EPV	50 x 46
520444	19	80	DDM	50 x 46
520456	20	150	DDL	50 x 46
520468	21	80	DDS	50 x 46
520480	21	150	EKE	50 x 46
520492	21	150	ELD/EJN	50 x 46
520504	21	150	EJM	50 x 46
520516	24	200	EJL	50 x 46
520528	24	200	EWF	50 x 46
520540	24	250	ELC	50 x 46
520552	82	250	EXY	50 x 46
520564	82	300	FHS	50 x 46
520576	82	300	EXR	50 x 46
520588	82	300	EXW	50 x 46

PROJECTION / SEARCHLIGHT LAMPS

Halogen Projection/Searchlight Lamps G6.35

Cat. no.	Voltage	Watts	Code	d x l mm
520612	12	50	BRL	12 x 44
520624	15	150	EVB/BRJ	12 x 44
520636	24	100		12 x 44
520648	24	150	FCS	14 x 50
520660	24	150	FDV	14 x 50
520672	24	250		13 x 53
520684	24	250	EHJ	14 x 55
520696	24	275	FNT	14 x 55
520708	36	400	EVD	18 x 60
520732	240	300	DRA	18 x 50

Halogen Projection Reflector Lamps GZ6.35 Ø 50 mm

Cat. no.	Voltage	Watts	Code
520756	8	80	EFM
520768	12	75	EFN
520780	12	100	EFP
520792	15	150	EFR

Halogen Projection Reflector Lamps GX7.92 Ø 50 mm

Cat. no.	Voltage	Watts	Code
520816	16	50	ELS
520828	24	250	EMM/EKS

Halogen Searchlight Lamps G9.5

Cat. no.	Voltage	Watts	Type	Cap	d x l mm
520852	240	1000	CP77	G9.5	22 x 101

Halogen Searchlight Lamps GX9.5

Cat. no.	Voltage	Watts	Type	Cap	d x l mm
520876	120	1000	T11	GX9.5	35 x 105
520888	240	650	T12	GX9.5	23 x 105
520900	230	1000	T11/T19	GX9.5	35 x 105

Halogen Projection/Searchlight Lamps GY9.5

Cat. no.	Voltage	Watts	Code	d x l mm
521008	120	600	BHC/DYS	22 x 63
520936	220	400	FSY	22 x 75
520948	240	500	FRJ	23 x 85
520960	220	800		22 x 86
520972	230	900	DZJ	22 x 87

Halogen Projection/Searchlight Lamps GZ9.5

Cat. no.	Voltage	Watts	Code	d x l mm
520996	12	100	FDT	12 x 57
521002	24	150	FDS/DZC	13 x 60
521020	240	650	DYR	22 x 60

Halogen Lamps Ba9s

Cat. no.	Voltage	Watts	Cap	d x l mm
521112	6	20	Ba9s	9 x 28
521124	12	5	Ba9s	9 x 28
521136	24	5	Ba9s	9 x 28

Searchlight Lamps top-mirror Ba20d

Cat. no.	Voltage	Watts	Cap	d x l mm
521196	24	100	Ba20d	50 x 74

Calex Halogen Searchlight Lamps P22s/P36s

Cat. no.	Voltage	Watts	d x l mm
521208	12	55	10 x 52

PROJECTION / SEARCHLIGHT LAMPS

Searchlight Lamps E40

Cat. no.	Voltage	Watts	Type	d x l mm
521644	230	1000	531B	135 x 200

Searchlight Lamps with Top-mirror E40

Cat. no.	Voltage	Watts	Type	d x l mm
521692	24	250	566Bkv	81 x 130
521704	24	500	570Bkv	110 x 165
521716	110	500	Japanese	110 x 160
521728	110	1000	Japanese	125 x 170
521740	220	500	Japanese	125 x 170
521752	220	1000	Japanese	125 x 170
521764	220	2000	Japanese	125 x 170

Searchlight Lamps with Side-mirror E40

Cat. no.	Voltage	Watts	Type	d x l mm
521788	110	500	Japanese	125 x 165
521794	220	500	Japanese	125 x 190
521800	230	1000	Japanese	125 x 170
521812	220	1000	13129G/01	130 x 205

Searchlight Lamps with Side-mirror and hole E40

Cat. no.	Voltage	Watts	Type	d x l mm
521836	110	1000	Japanese	125 x 170
521848	220	1000	Japanese	125 x 170
521860	220	2000	Japanese	150 x 245

Halogen Searchlight Lamps GY16

Cat. no.	Voltage	Watts	Type	d x l mm
521872	115	2000	CP43/72	40 x 145
521884	230	2000	CP43/72	40 x 145

PROJECTION / SEARCHLIGHT LAMPS

Halogen Searchlight Lamps G38

Cat. no.	Impa no.	Voltage	Watts	Type	d x l mm
521908	370532	120	2000	CP41/73	40 x 210
521920		120	3000	HX48	40 x 215
521932	370533	220	2000	CP41/73	40 x 210
521944		240	3000	HX48	50 x 215
521950		230	5000	CP85	62 x 280

Searchlight Lamps with Side-mirror and hole G19/54

Cat. no.	Impa no.	Voltage	Watts	Type	d x l mm
521968	370522	115	2000	Japanese	150 x 260
521980	370525	115	3000	Japanese	200 x 335
521992	370523	220	2000	Japanese	150 x 260
522004	370526	220	3000	Japanese	200 x 335

JAPANESE MERCURY AND SODIUM LAMPS

High-pressure Mercury-lamps, operating with ballast, Japanese type

Cat. no.	Impa no.	Watts	Cap	Type	d x l mm
550220	791103	100(125)	E26	HF	70 x 175
550228	791104	200	E39	HF	90 x 240
550236	791105	250	E39	HF	90 x 240
550244	791106	300	E39	HF	116 x 290
550252	791107	400	E39	HF	116 x 290
550260	791108	700	E39	HF	150 x 370
550268	791109	1000	E39	HF	180 x 390

High-pressure Mercury-lamps, operating with ballast, Japanese type with reflector

Cat. no.	Impa no.		Watts	Cap	Type	d x l mm
550290	791112		200	E39	HRF	165 x 305
550298	791114		300	E39	HRF	180 x 315
550306	791115		400	E39	HRF	180 x 315
550314	791116	(alternative)	700	E39	HRF	180 x 315
550316	791116		700	E39	HRF	280 x 420
550324	791117		1000	E39	HRF	280 x 420

JAPANESE MERCURY AND SODIUM LAMPS

High-pressure Sodium-lamps, operating with ballast, Japanese type Clear

Cat. no.	Impa no.	Watts	Cap	Type	d x l mm
550350	791201	700	E39	NH	150 x 375
550380	791214	700	E39	NHT	55 x 330

High-pressure Sodium-lamp, operating with ballast, Japanese type Frosted

Cat. no.	Impa no.	Watts	Cap	Type	d x l mm
550460	791206	700	E39	NHF	150 x 375

High-pressure Sodium-lamp, operating with ballast, Japanese type with reflector

Cat. no.	Impa no.	Watts	Cap	Type	d x l mm
550410	791220	400	E39	NHR	180 x 320

MERCURY LAMPS

High-pressure Mercury-lamps, operating with ballast

Cat. no.	Impa no.	Watts	Cap	Type	d x l mm
550540	791105	250	E40	HPM	90 x 226
550548	791107	400	E40	HPM	120 x 275

Philips High-pressure Mercury-lamps, operating with ballast

PHILIPS *HPL-N gives white light*

Cat. no.	Impa no.	Watts	Cap	Type	d x l mm
660516		50	E27	HPL-N	50 x 129
660518		80	B22	HPL-N	71 x 153
660524	791102	80	E27	HPL-N	71 x 155
660532	791103	125	E27	HPL-N	76 x 177
660536		125	E40	HPL-N	50 x 129
660540	791105	250	E40	HPL-N	91 x 226
660548	791107	400	E40	HPL-N	122 x 290
660556	701108	700	E40	HPL-N	142 x 328
660564	791109	1000	E40	HPL-N	165 x 399

Philips High-pressure Metal Halide-lamps, operating with ballast

PHILIPS *BU=Base up S=Internal starter P= Protection coating*

Cat. no.	Type	Watts	Cap	Glass	d x l mm
661040	HPIPLUS-BU	250	E40	Opal	91 x 226
661044	HPIPLUS-BUP	250	E40	Opal	91 x 226
661056	HPIPLUS-BU	400	E40	Opal	122 x 290
661062	HPIPLUS-BUP	400	E40	Opal	122 x 290
661068	HPIPLUS-BUS	400	E40	Opal	122 x 290
661074	HPIPLUS-BUSP	400	E40	Opal	122 x 290
661080	HPIPLUS	400	E40	Opal	122 x 290

Philips High-pressure Metal Halide-lamps, operating with ballast

PHILIPS *BU=Base up S=Internal starter P= Protection coating*

Cat. no.	Type	Watts	Cap	Glass	d x l mm
661104	HPI-T	250	E40	Clear	47 x 257
661110	HPI-T	400	E40	Clear	47 x 283
661116	HPI-T	1000	E40	Clear	66 x 382
661122	HPI-T220V	2000	E40	Clear	102 x 430
661128	HPI-T380V	2000	E40	Clear	102 x 430

SODIUM LAMPS

Calex High-pressure Sodium-lamps, operating with ballast

CALEX

Cat. no.	Impa no.	Type	Watts	Cap	Glass	d x l mm
552118	791212	HPS-T	250	E40	Clear	47 x 257
552124	791213	HPS-T	400	E40	Clear	47 x 283
552130	791215	HPS-T	1000	E40	Clear	66 x 382

Philips High-pressure Sodium-lamps, operating with ballast

PHILIPS

Cat. no.	Type	Watts	Cap	Glass	d x l mm
662024	SON-I	50	E27	Opal	71 x 156
662030	SON-E	50	E27	Opal	71 x 156
662036	SON-I	70	E27	Opal	71 x 156
662042	SON-E	70	E27	Opal	71 x 156

Philips High-pressure Sodium-lamps, operating with ballast

PHILIPS

Cat. no.	Type	Watts	Cap	Glass	d x l mm
662320	SON-PLUS	100	E40	Opal	76 x 186
662326	SON-PLUS	150	E40	Opal	91 x 226
662332	SON-PLUS	250	E40	Opal	91 x 226
662338	SON-PLUS	400	E40	Opal	122 x 290

Philips High-pressure Sodium-lamps, operating with ballast

PHILIPS

Cat. no.		Type	Watts	Cap	Glass	d x l mm
662066	791207	SON	1000	E40	Opal	166 x 400
662426		SON-Comfort	150	E40	Opal	91 x 226
662432		SON-Comfort	250	E40	Opal	91 x 226
662438		SON-Comfort	400	E40	Opal	122 x 290
662530		SON-H	220	E40	Opal	91 x 226
662536		SON-H	350	E40	Opal	122 x 290

Philips High-pressure Sodium-lamps, operating with ballast

PHILIPS

Cat. no.	Impa no.	Type	Watts	Cap	Glass	d x l mm
662708		SON-T PLUS	50	E27	Clear	38 x 156
662714		SON-T PLUS	70	E27	Clear	38 x 156
662720		SON-T PLUS	100	E40	Clear	47 x 211
662726	791211	SON-T PLUS	150	E40	Clear	47 x 211
662732	791212	SON-T PLUS	250	E40	Clear	47 x 257
662738	791213	SON-T PLUS	400	E40	Clear	47 x 283
662744		SON-T PLUS	600	E40	Clear	47 x 283
662838		SON-T Comfort	400	E40	Clear	47 x 283
662130	791215	SON-T	1000	E40	Clear	66 x 390

Philips Low-pressure Sodium Lamps SOX BY22d

PHILIPS *The colour is monochromatic yellow*

Cat. no.	Type	Watts	Cap	Glass	d x l mm
663030	SOX	35	By22d	Clear	52 x 311
663034	SOX	55	By22d	Clear	52 x 452
663038	SOX	90	By22d	Clear	68 x 528
663042	SOX	135	By22d	Clear	68 x775
663046	SOX	180	By22d	Clear	68 x 1120

Philips Low-pressure Sodium Lamps SOX-E BY22d

PHILIPS *The colour is monochromatic yellow*

Cat. no.	Type	Watts	Cap	Glass	d x l mm
663052	SOX-E	18	By22d	Clear	52 x 216
663056	SOX-E	26	By22d	Clear	52 x 311
663060	SOX-E	36	By22d	Clear	52 x 425
663064	SOX-E	66	By22d	Clear	68 x 528
663068	SOX-E	91	By22d	Clear	68 x 775
663072	SOX-E	131	By22d	Clear	68 x 1120

Philips Low-wattage Metal Halide-lamps, operating with ballast

PHILIPS

Cat. no.	Type	Watts	Colour	Cap	d x l mm
664020	MHN-TD	70	842	Rx7s	21 x 118
664028	MHN-TD	150	842	Rx7s	24 x 136
664036	MHN-TD	250	842	Rx7s	25 x 163
664060	MHW-TD	70	730	Rx7s	21 x 118
664068	MHW-TD	150	730	Rx7s	24 x 136

Osram Low-wattage Metal Halide-lamps, operating with ballast

Cat. no.	Type	Watts	Colour	Cap	d x l mm
834600	HQITS 70NDL	70	Neutral	Rx7s	20 x 118
834608	HQITS 150NDL	150	Neutral	Rx7s	20 x 118
834036	HQITS 250NDL	250	Neutral	Fc2	25 x 163
834112	HQITS 400NDL	400	Neutral	Fc2	33 x 206
834620	HQITS 70DL	70	Warm	Rx7s	20 x 118
834628	HQITS 150DL	150	Warm	Rx7s	20 x 118
834076	HQITS 250WDL	250	Warm	Fc2	25 x 163
834118	HQITS 400D	400	Daylight	Fc2	33 x 206

Osram Low-wattage Metal Halide-lamps, operating with ballast

Cat. no.	Type	Watts	Colour	Cap	d x l mm
834560	HQIT 70NDL	70	Neutral	G12	25 x 84
834568	HQIT 150NDL	150	Neutral	G12	25 x 84
834580	HQIT 70WDL	70	Warm	G12	25 x 84
834588	HQIT 150WDL	150	Warm	G12	25 x 84

Osram Vialox High-pressure Sodium-lamps, operating with ballast

Cat. no.	Type	Watts	Cap	d x l mm
836332	NAV-TS	70	RX7s	20 x 120
836336	NAV-TS	150	RX7s-24	23 x 138
836354	NAV-TS	250	Fc2	23 x 206
836360	NAV-TS	400	Fc2	23 x 206

G12

Rx7s

G8,5

PG12-2

Philips Mastercolour H.I.D. Lamps, operating with ballast

PHILIPS

Cat. no.	Type	Watts	Colour	Cap	d x l mm
664552	CDM-T	35	830	G12	20 x 101
664560	CDM-T	70	830	G12	20 x 101
664568	CDM-T	150	830	G12	20 x 110
664576	CDM-T	35	842	G12	20 x 101
664580	CDM-T	70	942	G12	20 x 101
664588	CDM-T	150	942	G12	20 x 110
664600	CDM-TD	70	830	Rx7s	21 x 118
664608	CDM-TD	150	830	Rx7s	24 x 136
664620	CDM-TD	70	942	Rx7s	21 x 118
664628	CDM-TD	150	942	Rx7s	24 x 136
664632	CDM-TC	35	830	G8,5	14 x 85
664638	CDM-TC	70	830	G8,5	14 x 85
664648	CDM-TP	70	830	PG12-2	32 x149
664654	CDM-TP	150	830	PGX12-2	32 x 149
664660	CDM-TP	70	942	PG12-2	32 x 149
664668	CDM-TP	150	942	PGX12-2	32 x 149

Mastercolour Metal Halide-lamps, operating with ballast

PHILIPS *Pressed-glass type* *Beam*

Cat. no.	Type		Watts	spread	Cap	d x l mm
664702	CDM-R	PAR 20	35	10^0	E27	65 x 95
664708	CDM-R	PAR 20	35	30^0	E27	65 x 95
664722	CDM-R	PAR 30	35	10^0	E27	97 x 123
664728	CDM-R	PAR 30	35	30^0	E27	97 x 123
664742	CDM-R	PAR 30	70	10^0	E27	97 x 123
664748	CDM-R	PAR 30	70	40^0	E27	97 x 123

Philips High-pressure Sodium-lamps, operating with ballast

PHILIPS

Cat. no.	Type	Watts	Cap	d x l mm
664772	SDW-TG	50	GX12-1	20 x 103
664778	SDW-TG	100	GX12-1	20 x 110
664812	SDW-T	35	PG12-1	14 x 149
664818	SDW-T	50	PG12-1	17 x 149
664824	SDW-T	100	PG12-1	20 x 149

MERCURY VAPOUR BLENDED LAMPS

Calex Blended-light Lamps, self ballasted

CALEX *Only for AC*

Cat. no.	Impa no.	Type	Voltage	Watts	Cap	d x l mm
555224	791151	BHF	110/120	160	E27	75 x 175
555238	791152	BHF	110/120	300	E39	90 x 225
555242	791153	BHF	110/120	500	E39	120 x 265
555248	791154	BHF	110/120	750	E39	150 x 370
555324	791155	BHF	220/240	160	E27	80 x 190
555336		BHF	220/240	250	E40	90 x 228
555338	791156	BHF	220/240	300	E39	90 x 225
555342	791157	BHF	220/240	500	E39	120 x 282

Philips Blended-light Lamps, self ballasted

PHILIPS *Only for AC*

Cat. no.		Type	Voltage	Watts	Cap	d x l mm
665318		ML	230	100	E27	70 x 156
665324		ML	230	160	E27	75 x 173
665330		ML	230	250	E27	90 x 216
665336		ML	230	250	E40	90 x 227
665342		ML	230	500	E40	120 x 290

Calex Blended-light Lamps with reflector, self ballasted

CALEX *Only for AC*

Cat. no.	Cat. no.	Type	Voltage	Watts	Cap	d x l mm
555638	791162	BHRF	110/120	300	E39	160 x 252
555642	791163	BHRF	110/120	500	E39	181 x 252
555648	791164	BHRF	110/120	750	E39	200 x 385
555724	791165	BHRF	220/230	160	E27	120 x 160
555736	791166	BHRF	220/230	300	E39	131 x 112
555742	791167	BHRF	220/230	500	E39	181 x 252
555748	791168	BHRF	220/230	750	E39	200 x 385

A55

P45

LED Lamps 240V 4,5W B22 2700K Warm White

Cat. no.	Descript.	Voltage	Watts	Lumen	Cap	Type	d x l mm
472102	GLS	240	4,5	380	B22	A55	55 x 102
472302	Spherical	240	4,5	380	B22	P45	45 x 73

A55

P45

LED Lamps 240V 4,5W B22 6500K Daylight

Cat. no.	Descript.	Voltage	Watts	Lumen	Cap	Type	d x l mm
472106	GLS	240	4,5	380	B22	A55	55 x 102
472306	Spherical	240	4,5	380	B22	P45	45 x 73

A55

P45-E14

P45-E27

LED Lamps 240V 4,5W 2700K Warm White

Cat. no.	Description	Voltage	Watts	Lumen	Cap	Type	d x l mm
472186	GLS	240	4,5	360	E27	A55	55 x 102
472352	Spherical	240	4,5	360	E14	P45	45 x 73
472354	Spherical	240	4,5	360	E27	P45	45 x 73
472446	Candle	240	4,5	360	E14	B38	38 x 103
472450	Tip-Candle	240	4,5	360	E14	BXS40	40 x 141

B38

BXS40

LED Lamps 240V 4,5W 6500K Daylight

Cat. no.	Description	Voltage	Watts	Lumen	Cap	Type	d x l mm
472192	GLS	240	4,5	380	E27	A55	55 x 102
472370	Spherical	240	4,5	380	E14	P45	45 x 78
472372	Spherical	240	4,5	380	E27	P45	45 x 73
472447	Candle	240	4,5	380	E14	B38	38 x 103

LED LAMPS

A55

LED Lamps 240V 6W B22 A60

CALEX

Cat. no.	Description	Voltage	Watts	Lumen	Colour	d x l mm
472112	GLS	240	6	470	3000K	60 x 112

LED Lamps 240V E27 A60

CALEX

Cat. no.	Descript.	Voltage	Watts	Lumen	Cap	Colour	d x l mm
472013	GLS	240	6	470	E27	3000K	60 x 112
421508	GLS	240	8	610	E27	3000K	60 x 112
421512	GLS	240	10	810	E27	3000K	60 x 112
421516	GLS	240	12	1100	E27	3000K	60 x 112
421528	GLS	240	12	1200	E27	4000K	60 x 112

LED Dimmable Lamps 240V E27 A60

CALEX

Cat. no.	Description	Voltage	Watts	Lumen	Colour	d x l mm
421558	GLS	240	8	500	2700K	60 x 112
421562	GLS	240	10	640	2700K	60 x 112
421566	GLS	240	12	810	2700K	60 x 112
421568	GLS	240	12	830	4000K	60 x 112
421570	GLS	240	13,5	1100	6500K	60 x 112

LED Dimmable Lamps 240V

CALEX

Cat. no.	Description	Voltage	Watts	Lumen	Colour	Cap	d x l mm
473704	R39	240	4	230	2700K	E14	39 x 71
473710	R50	240	5	320	2700K	E14	50 x 86
473716	R63	240	7	400	2700K	E27	63 x 105

LED Tubulair Lamps 240V 0,3W

CALEX

Cat. no.	Descript.	Voltage	Watts	Lumen	Cap	Type	Colour	d x l mm
472902	Tubulair	240	0,3	230	E12	T22	2700K	39 x 71
472904	Tubulair	240	0,3	320	E14	T20	2700K	50 x 86

Coloured LED Lamps 240V 1W B22 A60

CALEX

Cat. no.	Descript.	Voltage	Watts	Lumen	Colour	d x l mm
473372	GLS	240	1	12	2700K	60 x 107
473373	GLS	240	1	12	6500K	60 x 107
473374	GLS	240	1		Blue	60 x 107
473375	GLS	240	1		Yellow	60 x 107
473376	GLS	240	1		Green	60 x 107
473378	GLS	240	1		Red	60 x 107

Coloured LED Lamps 240V 1W E27 A60

CALEX

Cat. no.	Descript.	Voltage	Watts	Lumen	Colour	d x l mm
473382	GLS	240	1	12	2700K	60 x 107
473383	GLS	240	1	12	6500K	60 x 107
473384	GLS	240	1		Blue	60 x 107
473385	GLS	240	1		Yellow	60 x 107
473386	GLS	240	1		Green	60 x 107
473387	GLS	240	1		Orange	60 x 107
473388	GLS	240	1		Red	60 x 107

Coloured LED Lamps 240V 1W B22 P45

CALEX

Cat. no.	Descript.	Voltage	Watts	Lumen	Colour	d x l mm
473396	Ball-lamp	240	1	12	2700K	45 x 70
473401	Ball-lamp	240	1	12	4000K	45 x 70
473397	Ball-lamp	240	1	12	6500K	45 x 70
473402	Ball-lamp	240	1		Blue	45 x 70
473404	Ball-lamp	240	1		Yellow	45 x 70
473406	Ball-lamp	240	1		Green	45 x 70
473408	Ball-lamp	240	1		Orange	45 x 70
473410	Ball-lamp	240	1		Red	45 x 70

Coloured LED Lamps 240V 1W E27 P45

CALEX

Cat. no.	Descript.	Voltage	Watts	Lumen	Colour	d x l mm
473398	Ball-lamp	240	1	12	2700K	45 x 70
473411	Ball-lamp	240	1	12	4000K	45 x 70
473399	Ball-lamp	240	1	12	6500K	45 x 70
473412	Ball-lamp	240	1		Blue	45 x 70
473414	Ball-lamp	240	1		Yellow	45 x 70
473416	Ball-lamp	240	1		Green	45 x 70
473418	Ball-lamp	240	1		Orange	45 x 70
473420	Ball-lamp	240	1		Red	45 x 70
473436	Ball-lamp	240	1		Changing Colour:	45 x 70
473424	PartyTray Ball-lamp	240	1	5 colours: Blue, Yellow, Green, Orange, Red		45 x 70

LED Lamps 240V G9

CALEX

Cat. no.	Descript.	Voltage	Watts	Lumen	Colour	d x l mm
473854	Yellow Lens	240	1,5	115	2700K	14 x 47
473856	Clear Lens	240	2,2	200	2700K	15 x 50

LED Dimmable Lamps 240V GU10

CALEX

Cat. no.	Descript.	Voltage	Watts	Lumen	Colour	d x l mm
473184	Dimmable	240	5	250	2700K	50 x 60
473186	Dimmable	240	5	260	4000K	50 x 60
473185	Dimmable	240	6	350	2700K	50 x 60
473187	Dimmable	240	6	360	4000K	50 x 60
473189	Dimmable	240	6	370	6500K	50 x 60
423516	Dimmable	240	7	450	2700K	50 x 60

LED Lamps 12V 1,5W G4

CALEX

Cat. no.		Voltage	Watts	Lumen	Colour	d x l mm
473830		12	1,5	80	3000K	12 x 28

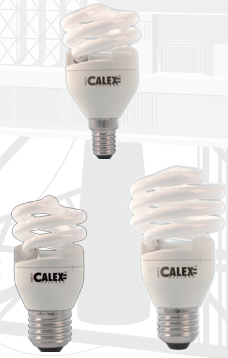
LED Lamps 12V 4W MR16

CALEX

Cat. no.	Descript.	Voltage	Watts	Lumen	Colour	d x l mm
473192	SMD	12	4	230	2700K	50 x 52
473194	SMD	12	4	250	4000K	50 x 52
473193	COB	12	6	230	2700K	50 x 52
473195	COB	12	6	250	4000K	50 x 52
473197	COB	12	6	230	6500K	50 x 52

Calex Twister Energy Saving Lamps 6500K Daylight, 12V E27 T3

Cat. no.		Voltage	Watts	Lumen	Cap	Type	d x l mm
571310		12	15	500	E27	T3	59 x 136



Calex Twister Energy Saving Lamps 2700K Warm White, 130V E14/E27 T2

Cat. no.	Impa no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
570576		130	8		E14	T2	46 x 97
570588	791581	130	8		E27	T2	46 x 94
570592	791587	130	12		E27	T2	47 x 103
570596		130	15		E27	T2	50 x 106
570600	791593	130	20		E27	T2	55 x 113
570604		130	24		E27	T2	60 x 117

Calex Twister Energy Saving Lamps 4000K Cool White, 130V E27 T2

Cat. no.	Impa no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
570616	791582	130	8		E27	T2	46 x 94
570620	791588	130	12		E27	T2	47 x 103
570628	791594	130	20		E27	T2	55 x 113

Calex Twister Energy Saving Lamps 6500K Daylight, 130V E14/E27 T2

Cat. no.	Impa no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
570640		130	8		E14	T2	46 x 97
570652	791583	130	8		E27	T2	46 x 94
570656	791589	130	12		E27	T2	47 x 103
570660		130	15		E27	T2	50 x 106
570664	791595	130	20		E27	T2	55 x 113
570668		130	24		E27	T2	60 x 117

Calex Twister Energy Saving Lamps 2700K Warm White, 240V B22 T2

Cat. no.		Voltage	Watts	Lumen	Cap	Type	d x l mm
576508		8	240	360	B22	T2	46 x 88
576510		12	240	610	B22	T2	46 x 92
576512		15	240	810	B22	T2	46 x 105
576516		24	240	1460	B22	T2	60 x 120

Calex Twister Energy Saving Lamps 6500K Daylight, 240V B22 T2

Cat. no.		Voltage	Watts	Lumen	Cap	Type	d x l mm
576538		240	8	360	B22	T2	46 x 88
576540		240	12	610	B22	T2	46 x 92
576542		240	15	810	B22	T2	46 x 105
576546		240	24	1460	B22	T2	60 x 120

Calex Twister Energy Saving Lamps 2700K Warm White, 240V E14/E27 T2

Cat. no.	Impa no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
576376		240	8	500	E14	T2	46 x 97
576388	791584	240	8	500	E27	T2	46 x 94
576392	791590	240	12	740	E27	T2	47 x 103
576396		240	15	970	E27	T2	50 x 106
576400	791596	240	20	1320	E27	T2	55 x 113
576404		240	24	1570	E27	T2	60 x 117
576416		240	32	2070	E27	T2	69 x 145

Calex Twister Energy Saving Lamps 4000K Cool White, 240V E27 T2

Cat. no.	Impa no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
576436	791585	8	240	500	E27	T2	46 x 94
576438	791591	12	240	740	E27	T2	47 x 103
576440		15	240	970	E27	T2	50 x 106
576442	791597	20	240	1320	E27	T2	55 x 113
576444		24	240	1570	E27	T2	60 x 117

Calex Twister Energy Saving Lamps 6500K Daylight, 240V E14/E27 T2

Cat. no.	Impa no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
576462		240	8	500	E14	T2	46 x 97
576474	791586	240	8	500	E27	T2	46 x 94
576478	791592	240	12	740	E27	T2	47 x 103
576482		240	15	970	E27	T2	50 x 106
576486	791598	240	20	1320	E27	T2	55 x 113
576490		240	24	1570	E27	T2	60 x 117

Calex Twister Energy Saving Lamps 2700K Warm White, 240V E27 T5

Cat. no.		Voltage	Watts	Lumen	Cap	Type	d x l mm
571584		240	45	3100	E27	T5	100 x 255
571588		240	55	3900	E27	T5	100 x 265

Calex Twister Energy Saving Lamps 6500K Daylight, 240V E27 T5

Cat. no.		Voltage	Watts	Lumen	Cap	Type	d x l mm
571688		240	55	3900	E27	T5	100 x 265
571696		240	85	6400	E27	T5	100 x 296
571708		240	105	8100	E40	T5	110 x 296

Calex Energy Saving Lamps 2700K Warm White, 240V A55

Cat. no.	Impa no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
581032	791564	240	8	350	E27	A55	55 x 107
581034	791570	240	12	600	E27	A55	55 x 107
581036	791576	240	15	800	E27	A55	55 x 118

Calex Energy Saving Lamps 4000K Cool White, 240V A55

Cat. no.	Impa no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
581052	791565	240	8	350	E27	A55	55 x 107
581054	791571	240	12	600	E27	A55	55 x 107

Calex Energy Saving Lamps 6500K Daylight, 240V A55

Cat. no.	Impa no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
581062	791566	240	8	350	E27	A55	55 x 107
581064	791572	240	12	600	E27	A55	55 x 107

Calex Energy Saving Spherical Lamps 2700K Warm White, E14/E27

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
572108	240	7	290	E14	T45	45 x 82
572118	240	7	290	E27	T45	45 x 80

Calex Energy Saving Candle Lamps 2700K Warm White, E14

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
572184	240	7	290	E14	B37	40 x 100
572188	240	11	540	E14	B40	40 x 125
572196	240	7	290	E14	BXS40	40 x 135

Calex Energy Saving Reflection Lamps 2700K Warm White, E27

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
573280	240	9	300	E27	R63	63 x 110
573288	240	11	400	E27	R63	63 x 110

Calex Energy Saving Globe Lamps 2700/6500K, E27

CALEX

Cat. no.	Voltage	Watts	Lumen	Cap	Type	Colour	d x l mm
580782	240	23	1380	E27	G105	2700K	105 x 140
580922	240	23	1380	E27	G105	4000K	105 x 140
580790	240	30	1900	E27	G125	2700K	125 x 175
580792	240	30	1900	E27	G125	4000K	125 x 175

Calex Energy Saving Pressed-Glass Reflector Lamps PAR38, 240V E27

CALEX

Cat. no.	Voltage	Watts	Lumen	Cap	Type	Colour	d x l mm
583120	240	20	800	E27	Par38	2700K	121 x 140
583124	240	20	800	E27	Par38	4000K	121 x 140
583140	240	20	150	E27	Par38	Blue	121 x 140
583142	240	20	500	E27	Par38	Yellow	121 x 140
583144	240	20	200	E27	Par38	Green	121 x 140
583146	240	20	150	E27	Par38	Red	121 x 140

Calex Energy Saving Striplite Tube 2700K Warm White, 240V

CALEX

Cat. no.	Voltage	Watts	Lumen	Cap	d x l mm
583700	240	8	250	2xS14s	30 x 300
583712	240	13	500	2xS14s	30 x 500
583718	240	20	900	2xS14s	30 x 1000

Philips Genie Energy Saving Lamps 2700K Warm White, 240V E14/E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
680512	220/240	5	250	E14	2U	38 x 109
680516	220/240	8	425	E14	3U	45 x 112
680518	220/240	11	600	E14	3U	45 x 122
680524	220/240	5	250	E27	2U	38 x 109
680528	220/240	8	425	E27	3U	45 x 107
680532	220/240	11	600	E27	3U	45 x 132
680536	220/240	14	810	E27	3U	45 x 132
680540	220/240	18	1100	E27	3U	45 x 135

Philips Genie Energy Saving Lamps 6500K Daylight, 240V E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
680908	220/240	8	400	E27	3U	45 x 107
680910	220/240	11	580	E27	3U	45 x 117
680912	220/240	14	760	E27	3U	45 x 132
680914	220/240	18	1040	E27	3U	45 x 135

Philips Tornado Energy Saving Lamps 2700K Warm White, 240V E14/E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
670810	220/240	5	270	E14	T2	41 x 88
670818	220/240	8	505	E14	T2	41 x 97
670822	220/240	12	741	E14	T2	41 x 104
670860	220/240	5	270	E27	T2	41 x 78
670868	220/240	8	505	E27	T2	41 x 87
670872	220/240	12	741	E27	T2	41 x 94
671176	220/240	15	970	E27	T2	43 x 108
671180	220/240	20	1320	E27	T2	47 x 116
671184	220/240	23	1570	E27	T2	51 x 119

Philips Tornado Energy Saving Lamps 2700K Warm White, 240V E27 with Sensor

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
671188	220/240	15	900	E27	T2	51 x 108

Philips Tornado Energy Saving Lamps 2700K Warm White, 240V E27 Dimmable

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
671192	220/240	20	1220	E27	T3	61 x 127

Philips Softone Energy Saving Lamps 2700K Warm White, 240V E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
671272	220/240	5	200	E27	A55	56 x 109
671278	220/240	8	400	E27	A55	56 x 109
671284	220/240	11	580	E27	A55	56 x 109
671290	220/240	15	810	E27	A65	64 x 125
671296	220/240	18	1050	E27	A70	71 x 137

Philips Master Energy Saving Lamps 2700K Warm White, 240V E14/E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
680322	220/240	8	432	E14	PLE-C	40 x 123
680328	220/240	11	600	E14	PLE-C	40 x 144
680358	220/240	8	432	E27	PLE-C	40 x 119
680364	220/240	11	600	E27	PLE-C	40 x 141
680370	220/240	15	890	E27	PLE-R	48 x 126
680376	220/240	20	1220	E27	PLE-R	48 x 137
680382	220/240	23	1500	E27	PLE-R	48 x 152
680388	220/240	27	1820	E27	PLE-R	48 x 174
680390	220/240	33	2250	E27	PLE-R	48 x 196

Philips Master Energy Saving Lamps 2700K Warm White, 240V E27 with Sensor

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
681004	230/240	15	900	E27	PLE-R	51 x 141

Philips Master Softone Energy Saving Lamps 2700K Warm White, 240V E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
680622	220/240	9	425	E27	A60	61 x 121
680628	220/240	12	630	E27	A65	66 x 128
680634	220/240	16	860	E27	A65	66 x 137
680640	220/240	20	1140	E27	A70	71 x 153
680646	220/240	23	1320	E27	A75	76 x 163

Philips Softone Globe Energy Saving Lamps 2700K Warm White, 240V E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
681264	220/240	12	600	E27	G93	93 x 153
681272	220/240	16	860	E27	G120	120 x 182
681276	220/240	20	1140	E27	G120	120 x 182
681280	220/240	23	1320	E27	G120	120 x 182

Philips Softone Spherical Energy Saving Lamps 2700K Warm White, 240V E14/E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
680490	220/240	5	195	E14	P45	53 x 89
680494	220/240	7	290	E14	P45	56 x 98
680496	220/240	5	195	E27	P45	53 x 85
680498	220/240	7	290	E27	P45	56 x 93

Philips Softone Candle Energy Saving Lamps 2700K Warm White, 240V E14/E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
680448	220/240	5	190	E14	B39	40 x 107
680452	220/240	8	370	E14	B40	41 x 120
680454	220/240	12	610	E14	B45	46 x 126
680460	220/240	8	370	E27	B40	41 x 119
680462	220/240	12	610	E27	B45	46 x 125

Philips Softone Flame P45/B39/A55 Energy Saving Lamps 2200K Extra Warm White, 240V E14/E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
680492	220/240	5	172	E14	P45	53 x 89
680495	220/240	7	255	E14	P45	56 x 98
680497	220/240	5	172	E27	P45	53 x 85
680500	220/240	7	255	E27	P45	53 x 93
680450	220/240	5	172	E14	B39	39 x 107
680481	220/240	8	320	E27	A55	56 x 109
680482	220/240	11	496	E27	A55	56 x 109

Philips Exterieur Energy Saving Lamps 2700K Warm White, 240V E27

PHILIPS

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
681160	220/240	9	425	E27	B50	51 x 137
681166	220/240	12	630	E27	B50	51 x 154
681172	220/240	16	860	E27	B50	51 x 154

Osram Energy Saving Lamps 2500K Warm White, 240V E27

OSRAM

Cat. no.	Voltage	Watts	Lumen	Cap	Type	d x l mm
840400	220/240	8	430	E27	DPRO	43 x 112
840424	220/240	11	640	E27	DINT	45 x 120
840428	220/240	14	825	E27	DINT	45 x 131
840432	220/240	18	1140	E27	DINT	45 x 148
840436	220/240	22	1440	E27	DINT	58 x 176
840440	220/240	30	1940	E27	DINT	58 x 195

Philips PL-S Lamps 2-pins, used with ballast

PHILIPS

Cat. no.	Type	Watts	Colour	Cap	d x l mm
685210	PLS5W827	5	2700K	G23	27 x 108
685214	PLS5W840	7	2700K	G23	27 x 138
685220	PLS7W827	7	2700K	G23	27 x 138
685222	PLS7W830	7	3000K	G23	27 x 138
685224	PLS7W840	7	4000K	G23	27 x 138
685230	PLS9W827	9	2700K	G23	27 x 168
685232	PLS9W830	9	3000K	G23	27 x 168
685234	PLS9W840	9	4000K	G23	27 x 168
685240	PLS11W827	11	2700K	G23	27 x 238
685242	PLS11W830	11	3000K	G23	27 x 238
685244	PLS11W840	11	4000K	G23	27 x 238

Philips PL-S Lamps 4-pins, used with ballast

PHILIPS

Cat. no.	Type	Watts	Colour	Cap	d x l mm
685310	PLS5W827 4P	5	2700K	2G7	13/28 x 85
685314	PLS5W840 4P	5	4000K	2G7	13/28 x 85
685320	PLS7W827 4P	7	2700K	2G7	13/28 x 115
685322	PLS7W830 4P	7	3000K	2G7	13/28 x 115
685324	PLS7W840 4P	7	4000K	2G7	13/28 x 115
685330	PLS9W827 4P	9	2700K	2G7	13/28 x 145
685332	PLS9W830 4P	9	3000K	2G7	13/28 x 145
685334	PLS9W840 4P	9	4000K	2G7	13/28 x 145
685340	PLS11W827 4P	11	2700K	2G7	13/28 x 215
685342	PLS11W830 4P	11	3000K	2G7	13/28 x 215
685344	PLS11W840 4P	11	4000K	2G7	13/28 x 215

Philips PL-C Lamps 2-pins, used with ballast

PHILIPS

Cat. no.	Type	Watts	Colour	Cap	d x l mm
685510	PLC10W827	10	2700K	G24d-1	28 x 118
685512	PLC10W830	10	3000K	G24d-1	28 x 118
685514	PLC10W840	10	4000K	G24d-1	28 x 118
685520	PLC13W827	13	2700K	G24d-1	28 x 140
685522	PLC13W830	13	3000K	G24d-1	28 x 140
685524	PLC13W840	13	4000K	G24d-1	28 x 140
685526	PLC13W865	13	6500K	G24d-1	28 x 140
685530	PLC18W827	18	2700K	G24d-2	28 x 152
685532	PLC18W830	18	3000K	G24d-2	28 x 152
685534	PLC18W840	18	4000K	G24d-2	28 x 152
685536	PLC18W865	18	6500K	G24d-2	28 x 152
685540	PLC26W827	26	2700K	G24d-3	28 x 173
685542	PLC26W830	26	3000K	G24d-3	28 x 173
685544	PLC26W840	26	4000K	G24d-3	28 x 173
685546	PLC26W865	26	6500K	G24d-3	28 x 173

Philips PL-C Lamps 4-pins, used with ballast

PHILIPS

Cat. no.	Type	Watts	Colour	Cap	d x l mm
685610	PLC10W827 4P	10	2700K	G24q-1	28 x 110
685612	PLC10W830 4P	10	3000K	G24q-1	28 x 110
685614	PLC10W840 4P	10	4000K	G24q-1	28 x 110
685620	PLC13W827 4P	13	2700K	G24q-1	28 x 132
685622	PLC13W830 4P	13	3000K	G24q-1	28 x 132
685624	PLC13W840 4P	13	4000K	G24q-1	28 x 132
685630	PLC18W827 4P	18	2700K	G24q-2	28 x 144
685632	PLC18W830 4P	18	3000K	G24q-2	28 x 144
685634	PLC18W840 4P	18	4000K	G24q-2	28 x 144
685640	PLC26W827 4P	26	2700K	G24q-3	28 x 165
685642	PLC26W830 4P	26	3000K	G24q-3	28 x 165
685644	PLC26W840 4P	26	4000K	G24q-3	28 x 165

Philips PL-L Lamps 4-pins, used with ballast

PHILIPS

Cat. no.	Type	Watts	Colour	Cap	d x l mm
685710	PLL18W827	18	2700K	2G11	18/38 x 225
685712	PLL18W830	18	3000K	2G11	18/38 x 225
685714	PLL18W840	18	4000K	2G11	18/38 x 225
685716	PLL18W865	18	6500K	2G11	18/38 x 225
685720	PLL24W827	24	2700K	2G11	18/38 x 320
685722	PLL24W830	24	3000K	2G11	18/38 x 320
685724	PLL24W840	24	4000K	2G11	18/38 x 320
685726	PLL24W865	24	6500K	2G11	18/38 x 320
685730	PLL36W827	36	2700K	2G11	18/38 x 415
685732	PLL36W830	36	3000K	2G11	18/38 x 415
685734	PLL36W840	36	4000K	2G11	18/38 x 415
685736	PLL36W865	36	6500K	2G11	18/38 x 415
685742	PLL40W830	40	3000K	2G11	18/38 x 542
685744	PLL40W840	40	4000K	2G11	18/38 x 542
685752	PLL55W830	55	3000K	2G11	18/38 x 542
685754	PLL55W840	55	4000K	2G11	18/38 x 542
685756	PLL55W865	55	6500K	2G11	18/38 x 542

Philips PL-T Lamps 2-pins, used with ballast

PHILIPS

Cat. no.	Type	Watts	Colour	Cap	d x l mm
685800	PLT13W827	13	2700K	GX24d-1	41 x 115
685802	PLT13W830	13	3000K	GX24d-1	41 x 115
685804	PLT13W840	13	4000K	GX24d-1	41 x 115
685810	PLT18W827	18	2700K	GX24d-2	41 x 120
685812	PLT18W830	18	3000K	GX24d-2	41 x 120
685814	PLT18W840	18	4000K	GX24d-2	41 x 120
685820	PLT26W827	26	2700K	GX24d-3	41 x 134
685822	PLT26W830	26	3000K	GX24d-3	41 x 134
685824	PLT26W840	26	4000K	GX24d-3	41 x 134

Philips PL-T Lamps 4-pins, used with ballast

PHILIPS

Cat. no.	Type	Watts	Colour	Cap	d x l mm
685900	PLT32W827 4P	13	2700K	GX24q-1	41 x 107
685902	PLT32W830 4P	13	3000K	GX24q-1	41 x 107
685904	PLT32W840 4P	13	4000K	GX24q-1	41 x 107
685910	PLT18W827 4P	18	2700K	GX24q-2	41 x 112
685912	PLT18W830 4P	18	3000K	GX24q-2	41 x 112
685914	PLT18W840 4P	18	4000K	GX24q-2	41 x 112
685920	PLT26W827 4P	26	2700K	GX24q-3	41 x 127
685922	PLT26W830 4P	26	3000K	GX24q-3	41 x 127
685924	PLT26W840 4P	26	4000K	GX24q-3	41 x 127
685930	PLL32W827 4P	32	2700K	GX24q-3	41 x 139
685932	PLL32W830 4P	32	3000K	GX24q-3	41 x 139
685934	PLL32W840 4P	32	4000K	GX24q-3	41 x 139
685940	PLT42W827 4P	42	2700K	GX24q-4	41 x 161
685942	PLT42W830 4P	42	3000K	GX24q-4	41 x 161
685944	PLT42W840 4P	42	4000K	GX24q-4	41 x 161
685950	PLT57W827 4P	57	2700K	GX24q-5	41 x 198
685952	PLT57W830 4P	57	3000K	GX24q-5	41 x 198
685954	PLT57W840 4P	57	4000K	GX24q-5	41 x 198

Japanese Energy Effective Lamps 4-pins, used with ballast

Cat. no.	Type	Watts	Colour	Cap
579912	FPL13WEX-N 4P	13	5000K	GY10q-2
579916	FPL18WEX-N 4P	18	5000K	GY10q-3
579920	FPL27WEX-N 4P	27	5000K	GY10q-4
579924	FPL28WEX-N 4P	28	5000K	GY10q-5
579928	FPL36WEX-N 4P	36	5000K	GY10q-6
579942	FPL13WEX-D 4P	13	6700K	GY10q-2
579946	FPL18WEX-D 4P	18	6700K	GY10q-3
579950	FPL27WEX-D 4P	27	6700K	GY10q-4

Calex Fluo Tubes T8 Standard Colours with G13 base, Rapid Start

Cat. no.	Impa no.	Watts	Colour K	Colour Code	Colour	d x l mm
589152	791405	15	4100	20	cool white	26 x 437
589160	791425	15	6500	10	daylight	26 x 437
589208	791412	18	4100	20	cool white	26 x 590
589216	791432	18	6500	10	daylight	26 x 590
589336	791418	36	4100	20	cool white	26 x 1198
589344	791438	36	6500	10	daylight	26 x 1198

Calex Special Japanese Fluo Tubes T8 with G13 base, Rapid Start

Cat. no.	Impa no.	Watts	Colour K	Colour Code	Colour	d x l mm
589424	791404	10	4100	20	cool white	26 x 330
589432	791424	10	6500	10	daylight	26 x 330

Calex Special Japanese Fluo Tubes T10 with G13 base, Rapid Start

Cat. no.	Impa no.	Watts	Colour K	Colour Code	Colour	d x l mm
589456	791407	20	4100	20	cool white	32,5 x 580
589464	791427	20	6500	10	daylight	32,5 x 580
590480	791411	20	4100	20	cool white	32,5 x 590
590482	791431	20	6500	10	daylight	32,5 x 590
590488	791434	30	4100	20	cool white	32,5 x 630
590496	791416	40	4100	20	cool white	32,5 x 1198
590504	791436	40	6500	10	daylight	32,5 x 1198

Fluo Tubes TL Rapid Start T12 with G13 base

Cat. no.	Impa no.	Watts	Colour K	Colour Code	Colour	d x l mm
589368	791410	20	4100	20	cool white	38 x 590
589370	791430	20	6500	10	daylight	38 x 590
593850		40	3500		white	38 x 590
589378	791415	40	4100	20	cool white	38 x 1200
589380	791435	40	6500	10	daylight	38 x 1200

Fluo Tubes T8 with G13 base

Cat. no.		Watts	Colour K	Colour Code	Colour	d x l mm
590120		14	40000	133	cool white	26 x 360

Fluo Tubes TL-M Rapid Start T12 with G13 base

Cat. no.		Watts	Colour K	Colour Code	Colour	d x l mm
593944		115	4100	33	cool white	38 x 1200

Fluo Tubes TL-X Rapid Start T12 with Fa6 base

Cat. no.	Impa no.	Watts	Colour K	Colour Code	Colour	d x l mm
594024		20	4100	33	cool white	38 x 574
594036	791480	40	4100	33	cool white	38 x 1184

Miniature Fluo Tubes T5 with G5 base

CALEX

Cat. no.	Impa no.	Watts	Colour K	Colour Code	Colour	d x l mm
590724	791401	4	4100	20	cool white	16 x 138
590736	791402	6	4100	20	cool white	16 x 212
590756	791403	8	4100	20	cool white	16 x 288
590764	791423	8	6500	10	daylight	16 x 288

Philips Miniature Fluo Tubes T5 with G5 base

PHILIPS

Cat. no.	Impa no.	Watts	Colour K	Colour Code	Colour	d x l mm
690744	791402	6	4100	33	cool white	16 x 212
690746		6	4000	840	extra white	16 x 212
690758	791403	8	4100	33	cool white	16 x 288
690776		8	2700	827	extra warm	16 x 288
690784		8	3000	830	warm white	16 x 288
690792		8	4000	840	extra white	16 x 288
690820		13	4100	33	cool white	16 x 517
690840		13	2700	827	extra warm	16 x 517
690848		13	3000	830	warm white	16 x 517
690856		13	4000	840	extra white	16 x 517

Philips Master TL-D Super 80 Fluo Tubes T8 with G13 base

PHILIPS			Colour	Colour		
Cat. no.	Impa no.	Watts	K	Code	Colour	d x l mm
691020		15	2700	827	extra warm	26 x 437
691024		15	3000	830	warm white	26 x 437
691028	791405	15	4000	840	extra white	26 x 437
691032	791425	15	6500	865	daylight	26 x 437
691040		18	2700	827	extra warm	26 x 590
691044		18	3000	830	warm white	26 x 590
691048	791412	18	4000	840	extra white	26 x 590
691052	791432	18	6500	865	daylight	26 x 590
691064		23	3000	830	warm white	26 x 970
691068		23	4000	840	extra white	26 x 970
691080		30	2700	827	extra warm	26 x 894
691084		30	3000	830	warm white	26 x 894
691088	791405	30	4000	840	extra white	26 x 894
691092	791425	30	6500	865	daylight	26 x 894
691100		36	2700	827	extra warm	26 x 1200
691104		36	3000	830	warm white	26 x 1200
691108	791418	36	4000	840	extra white	26 x 1200
691112	791438	36	6500	865	daylight	26 x 1200
691124		38	3000	830	warm white	26 x 970
691128		38	4000	840	extra white	26 x 970
691144		38	3000	830	warm white	26 x 1047
691148		38	4000	840	daylight	26 x 1047
691160		58	2700	827	extra warm	26 x 1500
691164		58	3000	830	warm white	26 x 1500
691168		58	4000	840	extra white	26 x 1500
691172		58	6500	865	daylight	26 x 1500

Philips Master TL-D 90 De Luxe Fluo Tubes T8 with G13 base

PHILIPS		Colour	Colour		
Cat. no.	Watts	K	Code	Colour	d x l mm
691544	18	3000	930	warm de luxe	26 x 590
691548	18	3800	940	white de luxe	26 x 590
691552	18	5300	950	cool de luxe	26 x 590
691556	18	6500	965	verry cool de luxe	26 x 590
691584	36	3000	930	warm de luxe	26 x 1200
691588	36	3800	940	white de luxe	26 x 1200
691592	36	5300	950	cool de luxe	26 x 1200
691596	36	6500	965	verry cool de luxe	26 x 1200
691604	58	3000	930	warm de luxe	26 x 1500
691608	58	3800	940	white de luxe	26 x 1500
691612	58	5300	950	cool de luxe	26 x 1500
691616	58	6500	965	verry cool de luxe	26 x 1500

Philips TL-5 High Efficiency Lamps/High Output Lamps

PHILIPS			Colour		
Cat. no.	Type	Watts	Code	Colour	d x l mm
692520	TL5 14W 827 HE	14	2700K	827	16 x 549
692524	TL5 14W 830 HE	14	3000K	830	16 x 549
692528	TL5 14W 840 HE	14	4000K	840	16 x 549
692540	TL5 21W 827 HE	21	2700K	827	16 x 849
692544	TL5 21W 830 HE	21	3000K	830	16 x 849
692548	TL5 21W 840 HE	21	4000K	840	16 x 849
692550	TL5 24W 827 HE	24	2700K	827	16 x 549
692554	TL5 24W 830 HE	24	3000K	830	16 x 549
692558	TL5 24W 840 HE	24	4000K	840	16 x 549
692560	TL5 28W 827 HE	28	2700K	827	16 x 1149
692564	TL5 28W 830 HE	28	3000K	830	16 x 1149
692568	TL5 28W 840 HE	28	4000K	840	16 x 1149
692580	TL5 35W 827 HE	35	2700K	827	16 x 1149
692584	TL5 35W 830 HE	35	3000K	830	16 x 1149
692588	TL5 35W 840 HE	35	4000K	840	16 x 1149
692590	TL5 39W 827 HO	39	2700K	827	16 x 849
692594	TL5 39W 830 HO	39	3000K	830	16 x 849
692598	TL5 39W 840 HO	39	4000K	840	16 x 849
692600	TL5 49W 827 HO	49	2700	827	16 x 1449
692604	TL5 49W 830 HO	49	3000	830	16 x 1449
692608	TL5 49W 840 HO	49	4000	840	16 x 1449

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Philips TL-5 High Efficiency Lamps/High Output Lamps

PHILIPS continuation

Cat. no.	Type	Watts	Colour K	Colour	d x l mm
692620	TL5 54W 827 HO	54	2700	827	16 x 1149
692624	TL5 54W 827 HO	54	3000	830	16 x 1149
692628	TL5 54W 827 HO	54	4000	840	16 x 1149
692644	TL5 80W 827 HO	80	3000K	830	16 x 1449
692648	TL5 80W 830 HO	80	4000K	840	16 x 1449

Philips Master TL-D Xtra Fluo Tube T8, Long Life

PHILIPS

Cat. no.	Watts	Colour K	Colour Code	Colour	d x l mm
691212	18	3000	830	warm white	26 x 590
691216	18	4000	840	extra white	26 x 590
691240	36	3000	830	warm white	26 x 1200
691244	36	4000	840	extra white	26 x 1200
691256	58	3000	830	warm white	26 x 1500
691260	58	4000	840	extra white	26 x 1500

Philips Master TL-D Xtreme Fluo Tube T8, Extreme Long Life

PHILIPS

Cat. no.	Watts	Colour Code	Colour Code	Colour	d x l mm
691312	18	3000	830	warm white	26 x 590
691316	18	4000	840	extra white	26 x 590
691340	36	3000	830	warm white	26 x 1200
691344	36	4000	840	extra white	26 x 1200
691356	58	3000	830	warm white	26 x 1500
691360	58	4000	840	extra white	26 x 1500

Philips Master TL-D Reflex Fluo Tube T8

With internal refelector of 200 degrees, leaving a 'window' of 160 degrees

PHILIPS

Cat. no.	Watts	Colour K	Colour Code	Colour	d x l mm
693028	18	4000	840	extra white	26 x 590
693064	36	3000	830	warm white	26 x 1200
693068	36	4000	840	extra white	26 x 1200
693084	58	3000	830	warm white	26 x 1500
693088	58	4000	840	extra white	26 x 1500

Philips Master TL-D Secura Fluo Tube T8

Provided with a protective coating which keeps glass and other lamp components together

PHILIPS			Colour	Colour		
Cat. no.		Watts	Code	Code	Colour	d x l mm
693224		18	3000	830	warm white	26 x 590
693228		18	4000	840	extra white	26 x 590
693264		36	3000	830	warm white	26 x 1200
693268		36	4000	840	extra white	26 x 1200
693284		58	3000	830	warm white	26 x 1500
693288		58	4000	840	extra white	26 x 1500

Philips Master TL-D Xtra Polar Fluo Tube T12

PHILIPS			Colour	Colour		
Cat. no.		Watts	K	Code	Colour	d x l mm
693324		18	3000	830	warm white	38 x 590
693328		18	4000	840	extra white	38 x 590
693336		18	6500	865	daylight de Luxe	38 x 590
693364		36	3000	830	warm white	38 x 1200
693368		36	4000	840	extra white	38 x 1200
693374		36	6500	865	daylight de luxe	38 x 1200
693384		58	3000	830	warm white	38 x 1500
693388		58	4000	840	extra white	38 x 1500
693396		58	6500	865	daylight de luxe	38 x 1500

Philips TL-M RS Fluo Tubes T12 with G13 base

These lamps start witout earth connection, in moist atmosphere and down to -15°C preheat, starterless ignition

PHILIPS				Colour	Colour		
Cat. no.	Cat. no.	Watts	K	Code	Colour	d x l mm
693824	791410	20	4100	33	cool white	38 x 590
693842		20	3000	830	warm white	38 x 590
693848		20	4000	840	extra white	38 x 590
693864	791415	40	4100	33	cool white	38 x 1200
693870	791435	40	6200	54	daylight	38 x 1200
693882		40	3000	830	warm white	38 x 1200
693888		40	4000	840	extra white	38 x 1200
693904		65	4100	33	cool white	38 x 1500
693922		65	3000	830	warm white	38 x 1500
693928		65	4000	840	extra white	38 x 1500

Philips TLX-XL Fluo Tubes T12 with Fa6 base

Used in flameproof and increased safety luminaires

PHILIPS			Colour	Colour		
Cat. no.	Impa no.	Watts	K	Code	Colour	d x l mm
694124		20	4100	33	cool white	38 x 574
694136	791480	40	4100	33	cool white	38 x 1184
694148		65	4100	33	cool white	38 x 1484

Philips TL-S Fluo Tubes T12 with R18s base

Specifically designed for public lighting

PHILIPS		Colour	Colour		
Cat. no.	Watts	K	Code	Colour	d x l mm
694324	20	4100	33	cool white	38 x 590
694328	20	3000	830	warm white	38 x 590
694336	40	4100	33	cool white	38 x 1200

Philips TL-D Coloured Fluo Tubes T8 with G13 base

PHILIPS		Colour		
Cat. no.	Watts	Code	Colour	d x l mm
694512	18	15	red	26 x 590
694516	18	16	yellow	26 x 590
694520	18	17	green	26 x 590
694524	18	18	blue	26 x 590
694532	36	15	red	26 x 1200
694536	36	16	yellow	26 x 1200
694540	36	17	green	26 x 1200
694544	36	18	blue	26 x 1200

Philips Blacklight Blue Fluo Tubes

PHILIPS			Colour		
Cat. no.	Type	Watts	Code	Cap	d x l mm
694612	TL	4	08	G5	16 x 140
694624	TL	6	08	G5	16 x 212
694636	TL	8	08	G5	16 x 288
694654	TL-D	18	08	G13	26 x 590
694666	TL-D	36	08	G13	26 x 1200
694680	PL-S	9	08	G23	13/28 x 167

Philips Special Fluo Tubes Colour 10 (05)

Applications: Diazo copying, (photo)chemical processes and insect traps

PHILIPS			Colour		
Cat. no.	Type	Watts	Code	Cap	d x l mm
694924	TL	8	10	G5	16 x 288
694930	TL-D	15	10	G13	26 x 437
694936	TL-D	18	10	G13	26 x 590

Aura Long Life Ulimate Fluo Tubes T8 with G13 base

AURA		Colour	Colour		
Cat. no.	Watts	K	Code	Colour	d x l mm
595012	18	2700	827	extra warm white	26 x 590
595014	18	3000	830	warm white	26 x 590
595018	18	4000	840	extra white	26 x 590
595022	18	6500	865	daylight	26 x 590
595032	36	2700	827	extra warm white	26 x 1200
595036	36	3000	830	warm white	26 x 1200
595040	36	4000	840	extra white	26 x 1200
595044	36	6500	865	daylight	26 x 1200
595052	58	2700	827	extra warm white	26 x 1500
595056	58	3000	830	warm white	26 x 1500
595060	58	4000	840	extra white	26 x 1500
595064	58	6500	865	daylight	26 x 1500

Circular Fluo Tubes with G10q base

CALEX PHILIPS

			Colour			
Cat. no.		Watts	K	Type	Colour	d x l mm
596026		20	6200	Japanese	daylight	29 x 165
596038	791451	20	4100	Japanese	cool white	29 x 205
596066	791452	30	3500	Japanese	cool white	32 x 229

Philips Circular Fluo Tubes with G10q base

PHILIPS

			Colour	Colour		
Cat. no.		Watts	K	Code	Colour	d x l mm
696054		22	6200	840	extra white	29 x 216
696092		32	3000	830	warm white	29 x 311
696096	791453	32	4000	840	extra white	29 x 311
696122		40	3000	830	warm white	29 x 413
696126	791455	40	4000	840	extra white	29 x 413

Philips TL5 Circular Fluo Tubes with 2GX13 base

PHILIPS

		Colour	Colour		
Cat. no.	Watts	K	Code	Colour	d x l mm
696808	22	2700	827	extra warm white	14 x 230
696812	22	3000	830	warm white	14 x 230
696816	22	4000	840	extra white	14 x 230
696824	40	2700	827	extra warm white	14 x 305
696828	40	3000	830	warm white	14 x 305
696832	40	4000	840	extra white	14 x 305
696840	55	3000	830	warm white	14 x 305
696844	55	4000	840	extra white	14 x 305
696852	60	3000	830	warm white	14 x 379
696856	60	4000	840	extra white	14 x 379

2D Fluo Tubes with GR8-2pin Base

		Colour	Colour			
Cat. no.	Watts	K	Code	Pins	Cap	w x h mm
597112	16	2700	warm white	2-pin	GR8-2p	140 x 140
597124	21	2700	warm white	2-pin	GR8-2p	140 x 140
597136	28	2700	warm white	2-pin	GR8-2p	205 x 205

2D Fluo Tubes with GR10q-4pin Base

Cat. no.	Watts	Colour K	Colour Code	Pins	Cap	w x h mm
597202	10	2700	warm white	4-pin	GR10q-4p	91 x 94
597212	16	2700	warm white	4-pin	GR10q-4p	140 x 140
597224	21	2700	warm white	4-pin	GR10q-4p	140 x 140
597236	28	2700	warm white	4-pin	GR10q-4p	205 x 205
597240	28	3500	white	4-pin	GR10q-4p	205 x 205
597248	38	2700	warm white	4-pin	GR10q-4p	205 x 205

Philips 2D Fluo Tubes with GR8-2pin Base

PHILIPS

Cat. no.	Watts	Colour K	Colour Code	Colour	d x l mm
697112	16	2700	827	extra warm white	141 x 138
697114	16	3000	830	warm white	141 x 138
697116	16	3500	835	white	141 x 138

Philips 2D Fluo Tubes with GR10q-4pin Base

PHILIPS

Cat. no.	Watts	Colour K	Colour Code	Colour	d x l mm
697212	16	2700	827	extra warm white	141 x 138
697214	16	3000	830	warm white	141 x 138
697216	16	3500	835	white	141 x 138
697236	28	2700	827	extra warm white	207 x 205
697238	28	3000	830	warm white	207 x 205
697240	28	3500	835	white	207 x 205
697242	28	4000	840	extra white	207 x 205
697248	38	2700	827	extra warm white	207 x 205
697250	38	3000	830	warm white	207 x 205
697252	38	3500	835	white	207 x 205
697254	38	4000	840	extra white	207 x 205

UV Germicidal Tubes

CALEX

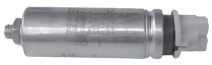
Cat. no.	Impa no.	Watts	Type	Cap	d x l mm
568036	791491	4	GL-4	G5	15 x 136
568040	791492	6	GL-6	G5	15 x 212
568044	791493	8	GL-8	G5	15 x 288
568048	791494	10	GL-10	G13	25 x 330
568052	791495	15	GL-15	G13	25 x 436
568056		30	GL-30	G13	25 x 894
568064		40	G36T5L	PIN	19 x 860

Starters for FL-tubes and PL Lamps

Cat. no.	Impa no.	Brand	Type	Applications	Cap	Fig.
100410	791504	CALEX	FS-2	Single 4, 6, 8W 130/240V Series 4-22W 130/240V	P-21	1
100416	791506	CALEX	FS-U	Single 4-13W 240V 15-80W 130/240V	P-21	1
100426	791503	Japanese	FG7P	4, 6, 8, 10W 130/240V	P-21	1
100432	791504	Japanese	FG1P	14, 20, 30W 130/240V	P-21	1
100438	791505	Japanese	FG4P	40W 130/240V	P-21	1
100450	791501	Japanese	FG7EP	4, 6, 8, 10W 130/240V	E17	2
100456	791502	Japanese	FG1E	15, 18, 20, 30W 130/240V	E17	2
100610	791504	PHILIPS	S2	Single 4, 6, 8W 240V 4-22W 130V Series 4-22W 240V	P-21	1
100616	791506	PHILIPS	S10	Single 4-65W 240V	P-21	1
100648		PHILIPS	S11	Single 220-240W	P-10	1
100620		PHILIPS	S11	Single 80-100W 240V	P-21	1
100424		PHILIPS	S12	Single 115-140W 240V	P-21	1
100630		PHILIPS	S2-E	Electronic 18-22W 240V	P-21	1
100636		PHILIPS	S10-E	Electronic 30-65W 240V	P-21	1
100810	791504	OSRAM	ST151	Single 4, 6, 8W 240V 4-22W 130V Series 4-22W 240V	P-21	1
100814		OSRAM	ST173	Single 4-65W 240V	P-21	1
100816	791506	OSRAM	ST111	Single 4-80W 240V	P-21	1
100824		OSRAM	ST191	Single 100, 115, 140W 240V	P-21	1
100830		OSRAM	ST172	Electronic 18-22W 240V	P-21	1
100836		OSRAM	ST171	Electronic 30-65W 240V	P-21	1

Capacitors for fluorescent lighting

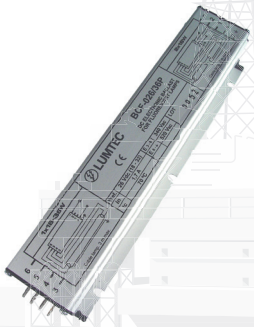
Cat. no.	µF	Applications
100524	0,01	Filter capacitor axial-type



Capacitors for fluorescent lighting

Cat. no.	µF	Applications
100530	2,5	FL 18 till 22W & PL 18/26W
100534	2,9	FL 30W
100538	3,5	FL 32 till 40W & PL 36W
100542	5,7	FL 58 till 65W

ELECTRONIC BALLAST FOR FL/PL



Electronic DC ballast for FL/PL

Cat. no.	Voltage	Range	Applications
101014	20V DC	20-32V	1x FL/PL 1x 18/36W
101018	20V DC	20-32V	1x TL/PL 36W, 2x 18W
101022	21V DC	21-27V	1x FL/PL 18/36W, 2x 18W

Electronic AC ballast for FL/PL

Cat. no.	Impa no.	Voltage	Hz	Applications
101042		110-127	50-60	PL 1 x 9/11W
101048	791553	110-127	50-60	FL 1 x 10W HPF
101054		110-127	50-60	FL 1 x 15W HPF
101060		110-127	50-60	FL 1 x 18/20W HPF
101066		110-127	50-60	FL 2 x 18/20W LPF
101072		110-127	50-60	FL 1 x 36/40W HPF
101078		110-127	50-60	FL 2 x 36/40W LPF
101142		220-240	50-60	PL 1 x 9/11W
101146		220-240	50-60	FL 1 x 8-13W / PL 7-11W
101148		220-240	50-60	FL 1 x 10W HPF
101154		220-240	50-60	FL 1 x 15W HPF
101160		220-240	50-60	FL 1 x 18/20W HPF
101166		220-240	50-60	FL 2 x 18/20W LPF
101172		220-240	50-60	FL 1 x 36/40W HPF
101178		220-240	50-60	FL 2 x 36/40W LPF

BALLAST FOR FL/PL

Osram AC/DC Rapid-star ballast for FL T8

Cat. no.	Voltage	Hz	Applications	Size L x W x H mm
101206	230-240V AC/DC	0/50-60	1 x 18/20W	359 x 30 x 30
101212	230-240V AC/DC	0/50-60	2 x 18/20W	423 x 30 x 30
101218	230-240V AC/DC	0/50-60	1 x 36/40W	359 x 30 x 30
101224	230-240V AC/DC	0/50-60	2 x 36/40W	423 x 30 x 30
101230	230-240V AC/DC	0/50-60	1 x 58/65W	359 x 30 x 30
101234	230-240V AC/DC	0/50-60	2 x 58/65W	423 x 30 x 30

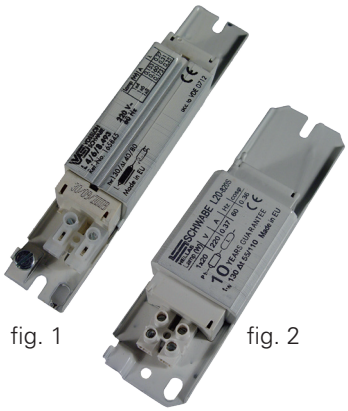


fig. 1 fig. 2

Ballast 110V 60Hz for FL/PL

Cat. no.	Impa no	Voltage	Hz	Applications	Fig.
101324	791552	110	60	FL 4, 6, 8W	1
101336	791554	110	60	FL 15W	2
101342	791555	110	60	FL 18/20W	2
101366	791557	110	60	FL 1 x 36/40W 2 x 18/20W	2

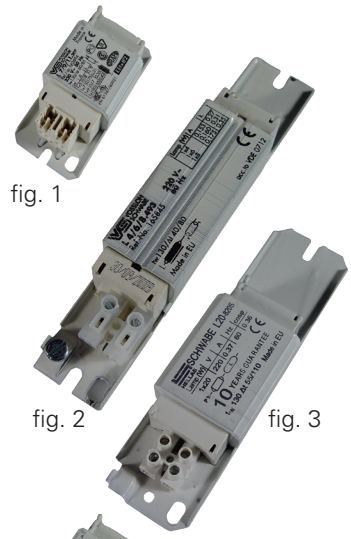


fig. 1

fig. 2 fig. 3

Ballast 230V 50Hz for FL/PL

Cat. no.	Voltage	Hz	Applications	Fig.
101412	230	50	PL 5, 7, 9, 11W	1
101424	220	50	FL 4, 6, 8W	2
101430	220	50	PL/FL 2 x 7W, 2 x 9W, 1 x13W	2
101436	220	50	FL 15W	3
101442	230	50	FL 18/20W	3
101466	230	50	FL 2 x 18/20W, 1 x 36/40W	3
101478	220	50	FL 1 x 58W	3

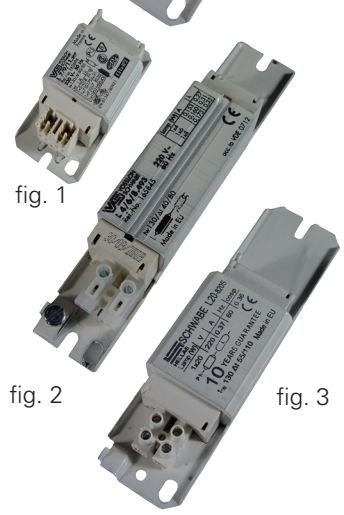


fig. 1

fig. 2 fig. 3

Ballast 220V 60Hz for FL/PL

Cat. no.	Impa no.	Voltage	Hz	Applications	Fig.
101512		220	60	PL 5, 7, 9, 11W	1
101524		220	60	FL 4, 6, 8W	2
101536		220	60	FL 1 x 15W	3
101542		220	60	FL 1 x 18/20W	3
101560		220	60	FL 2 x 14/15W, 1 x 30/32W	3
101566	791558	220	60	FL 2 x 18/20W, 1 x 36/40W	3
101578		220	60	FL 1 x 58/65W	3

IGNITORS FOR DISCHARGE LAMPS

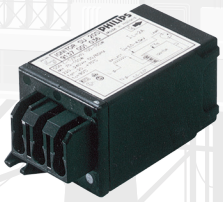
fig. 1

fig. 2

fig. 3

Serial ignitors for HS, HI Lamps

Cat. no.	Type	Applications	Fig.
101624	Z400M	A20 IP65 for HS 100-400W, HI	1
101636	Z400MK	for HS 70-400W, HI) 35-400W	2
101642	Z1000S	for HS/HI 250-1000W	3



Ignitors for HS, HI Lamps

Cat. no.	Brand	Type	Applications
101666	PHILIPS	SN57	HPS 50-70W
101672	PHILIPS	SN58	HPS 100-400W, CDM 35-150W MH 250W
101674	PHILIPS	SN59	HPS 1000W, MHN 1800W
101678	PHILIPS	SN61	SON(T) 1000W
101684	PHILIPS	SN57T5	SON(T) 50-70W
101706	PHILIPS	SKD578	HPS/MH 35-600W
101696	PHILIPS	SN58T15	CDM(T) 35-150W, MHN 250W

101712	OSRAM	STE 501	
101718	OSRAM	SE 600	

Ignitors for HI Lamps

Cat. no.		Type	Applications
101760	Philips	SI51	MH 250-400W
101766	Philips	SI52	MH 1000-2000W-230V
101772	Philips	SI54	MH 2000W-380V

CAPACITORS/FILTERS FOR DISCHARGE LAMPS

Capacitors for HPM, HPS(T), MH(T)

Cat. no.	µF	Applications
101812	6	HPS 35W, MH 35W
101818	8	HPM 50/80W
101824	10	HPM 125W, HPS 50W
101830	12	HPS 70/100W, MH 70W
101836	20	HPM 250W, HPS 150/250W, MH 150/250W
101842	25	HPM 400W, HPS 400W

BALLAST FOR MERCURY VAPOUR LAMPS

Japanese Ballast for Mercury-vapour lamps 110V 60Hz / 220V 60Hz

Cat. no.	Voltage	Hz	Applications	
101960	110	60	HF/HRF 400W	Japanese
101966	110	60	HF/HRF 700W	Japanese
102160	220	60	HF/HRF 400W	Japanese
102172	220	60	HF/HRF 700W	Japanese

Ballast for Mercury-vapour lamps 110V 60Hz

Cat. no.	Voltage	Hz	Applications
101954	110	60	HPM/MH 400W
101956	110	60	HPM/MH 700W
101958	110	60	HPM/MH 1000W

Ballast for Mercury-vapour lamps 220V 50Hz

Cat. no.	Voltage	Hz	Applications
102030	220	50	HPM/MH 250W
102042	220	50	HPM/MH 400W
102054	220	50	HPM/MH 700W

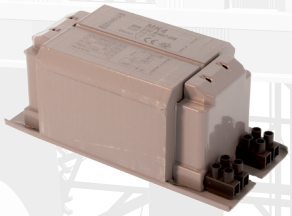
Ballast for Mercury Vapour Lamps 220V 60Hz

Cat. no.	Voltage	Hz	Applications
102112	220	60	HPM 50W
102118	220	60	HPM 80W
102124	220	60	HPM 125W
102130	220	60	HPM/MH 250W
102148	220	60	HPM/MH 400W
102166	220	60	HPM/MH 700W
102178	220	60	HPM/MH 1000W

BALLAST FOR HIGH-PRESSURE SODIUM LAMPS

Ballast for High-pressure Sodium Lamps 110V 60Hz

Cat. no.	Voltage	Hz	Applications
102230	110	60	HPS(T) 250W
102250	110	60	HPS(T) 400W
102256	110	60	NH(T/R) 700W
102258	110	60	HPS(T) 1000W



Ballast for High-pressure Sodium Lamps 230V 50Hz

Cat. no.	Voltage	Hz	Applications	Brand
102336	230	50	HPS(T) 250W	
102342	230	50	HPS(T) 250W	PHILIPS
102348	230	50	HPS(T) 400W	
102354	230	50	HPS(T) 400W	PHILIPS
102366	230	50	HPS(T) 1000W	PHILIPS

Ballast for High-pressure Sodium Lamps 220V 60Hz

Cat. no.	Voltage	Hz	Applications
102412	220	60	HPS 50W
102418	220	60	HPS 70W
102424	220	60	HPS 100W
102430	230	60	HPS(T) 150W
102436	220	60	HPS(T) 250W
102448	220	60	HPS(T) 400W
102460	220	60	NH(T/R) 700W
102466	220	60	HPS(T) 1000W

LAMPHOLDERS FOR PL LAMPS

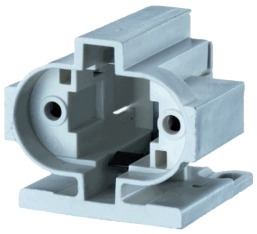


Fig. 1

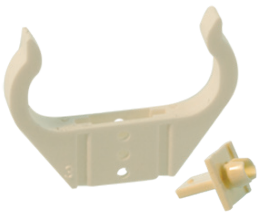


Fig. 2

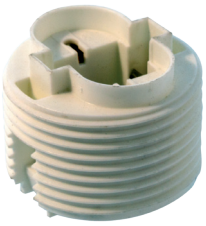


Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Lampholders for PL Lamps			
Cat. no.	***Description***	***Cap***	***Fig.***
102512	PL-S/Dulux-S for horizontal mounting	G23	1
102518	Lamp support for PL-S/Dulux-S		2
102524	PL-S/Dulux-S for vertical mounting	G23	3
102530	PL-C/Dulux-D 10/13W 2-pins	G24d1	4
102536	PL-C/Dulux-D 18W 2-pins	G24d2	4
102542	PL-C/Dulux-D 26W 2-pins	G24d3	4
102548	PL-C/Dulux-D 10/13W 4-pins	G24q1	5
102554	PL-C/Dulux-D 18W 4-pins	G24q2	5
102560	PL-C/Dulux-D 26/32W 4-pins	G24q3	5
102566	Cap with M10 thread for figure 3 till 5		6
102572	PL-L/Dulux-L 18 till 55W	G11	7
102578	Lamp support for PL-L/Dulux-L		8

Lampholders for Fluorescent Lamps				
Cat. no.	***Impa no.***	***Description***	***Type***	***Fig.***
102716		For FL lamps 4, 6, 8, 13 Watts	G5	1
102724	791526	Round		2
102732		Round with spring adjustment		3
102740	791521	Universal without starterholder		4
102748		Universal with starterholder		5
102756		Mellert without starterholder	1853B	6
102764		Mellert with starterholder	1853A	7
102772		Vossloh without starterholder	V10	8
102780		Vossloh with starterholder	V10	9
102788		Vossloh round on holder	48502	10
102796		Vossloh without starterholder	04807	11
102804		Vossloh with starterholder	04806	12
102812		Vossloh with spring adjustment	101806	13
102828		Vossloh round with spring adjustment	101812	14
102836		Elwis push-through	28501	15
102844		Glamox 2x lampholder on metal plate	68 E2	16
102846		Glamox lampholder for MIR fixture		17
102848		Glamox lampholder for MIR fixture, with spring		18
102852		Vossloh push-trough		19
102860	791528	Kokosha spring loaded support	ZS-22	20
102868	791522	Spring loaded rotor type 40 x 51 x 28.5 mm	H04	21
102876	791525	Japanese spring loaded support type 35 x 62.5 x 20 mm		22
102884	791529	Kokosha spring loaded support type	KL-238	23
102892	791532	Japanese spring loaded on sledge 40 x 60 x 22 mm	41-6034	24
102900	791533	Japanese spring loaded on sledge 50 x 62 x 22 mm		25
102916	791535	Watertight for ø 26mm FL lamps		26
102924		Watertight for ø 38mm FL lamps		26
102940	791536	Japanese watertight for ø 32mm FL lamps		27
102948		Set for circle FL lamps		28

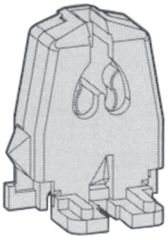


Fig. 1

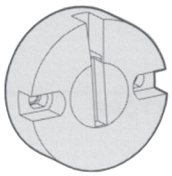


Fig. 2

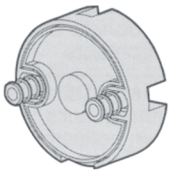


Fig. 3

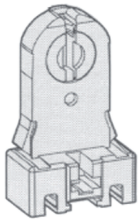


Fig. 4

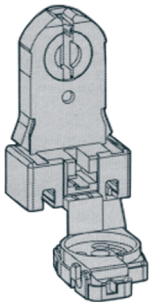


Fig. 5

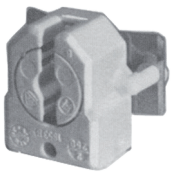


Fig. 6

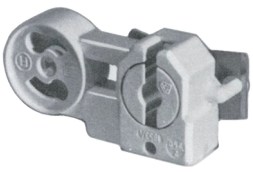


Fig. 7

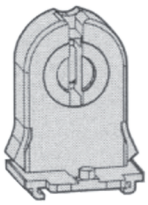


Fig. 8

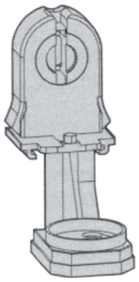


Fig. 9

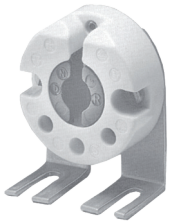


Fig. 10

Fig. 11

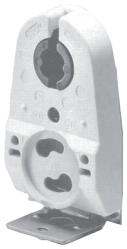


Fig. 12

Fig. 13

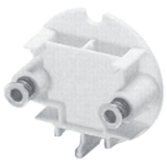


Fig. 14

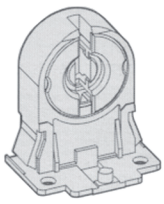


Fig. 15

Fig. 16

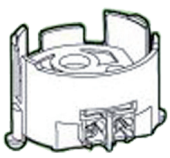


Fig. 17

Fig. 18

Fig. 19

Fig. 20

Fig. 21

Fig. 22

Fig. 23

Fig. 24

Fig. 25

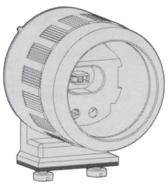


Fig. 26

Fig. 27

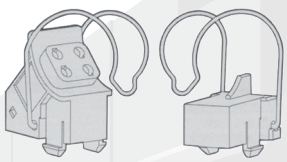


Fig. 28

BASE FOR STARTERS/RELAYS

Fig. 1

Fig. 2

Fig. 3

Fig. 4

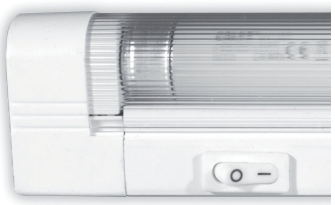
Bases for Starters/Relays

Cat. no.	Description	Fig.
103006	Base for 2-pol starters	1
103012	Base for 2-pol starters with mounting pins	2
103014	Base for 2-pol starters with mounting pins for Glamox "MIR" fixture	3
103018	Base for 4-pole starter relay	4

FLUORESCENT LIGHTING

Non watertight fluo-fixtures, for indoor use

Cat. no.	Voltage	Hz	Watts	Dimensions (d x l mm
104012	110	60	1 x 8	318 x 38 x 59
104024	110	60	1 x 15	470 x 38 x 70
104030	110	60	1 x 18	623 x 38 x 70
104036	110	60	2 x 18	623 x 134 x 50
104060	110	60	1 x 36	1232 x 38 x 70
104066	110	60	2 x 36	1232 x 134 x 50
104072	110	60	1 x 58	1532 x 38 x 70
104078	110	60	2 x 58	1532 x 134 x 50
104112	230	50	1 x 8	318 x 38 x 59
104124	230	50	1 x 15	470 x 38 x 70
104130	230	50	1 x 18	623 x 38 x 70
104136	230	50	2 x 18	623 x 134 x 50
104160	230	50	1 x 36	1232 x 38 x 70
104166	230	50	2 x 36	1232 x 134 x 50
104172	230	50	1 x 58	1532 x 38 x 70
104178	230	50	2 x 58	1532 x 134 x 50
104212	220	60	1 x 8	318 x 38 x 59
104224	220	60	1 x 15	470 x 38 x 70
104230	220	60	1 x 18	623 x 38 x 70
104236	220	60	2 x 18	623 x 134 x 50
104260	220	60	1 x 36	1232 x 38 x 70
104266	220	60	2 x 36	1232 x 134 x 50
104272	220	60	1 x 58	1532 x 38 x 70
104278	220	60	2 x 58	1532 x 134 x 50

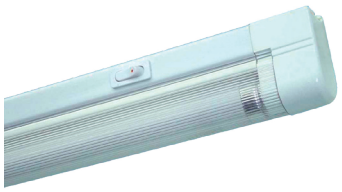


T5 Connectable FL fixtures with switch including FL-Tube

CALEX				Colour			
Cat. no.	Impa no.	Voltage	Hz	Watt	K	Colour	l x h x mm
104804		240	50/60	6	2700	warm white	266 x 28 x 43
104810	792145	240	50/60	8	2700	warm white	340 x 28 x 43
104816	792146	240	50/60	13	2700	warm white	595 x 30 x 80
104818	792147	240	50/60	14	2700	warm white	614 x 28 x 43
104822		240	50/60	21	2700	warm white	925 x 30 x 80
104828		240	50/60	28	2700	warm white	1220 x 30 x 80
104834		240	50/60	35	2700	warm white	1530 x 30 x 80
104854		240	50/60	6	6500	daylight	266 x 28 x 43
104860		240	50/60	8	6500	daylight	340 x 28 x 43
104866		240	50/60	13	6500	daylight	595 x 30 x 80
104868		240	50/60	14	6500	daylight	614 x 28 x 43
104872		240	50/60	21	6500	daylight	925 x 30 x 80
104878		240	50/60	28	6500	daylight	1220 x 30 x 80
104884		240	50/60	35	6500	daylight	1530 x 30 x 80

Non watertight DC Fluo-fixtures with opal shade and switch, for indoor use

Cat. no.		Voltage	Hz	Watts	Dimensions (l x w x h) mm
108012		12	DC	1 x 8	370 x 65 x 45
108112		24	DC	1 x 8	483 x 45 x 36
108118		24	DC	1 x 13	712 x 45 x 36



Non watertight Fluo-fixtures with opal shade and switch, for indoor use

Cat. no.		Voltage	Hz	Watts	Dimensions (l x w x h) mm
108212	792141	110	60	1 x 8	378 x 43 x 76
108312		220	50	1 x 8	378 x 43 x 76
108412	792145	220	60	1 x 8	378 x 43 x 76

Fluo-fixtures with opal shade, switch and shaver socket

Cat. no.		Voltage	Hz	Watts	Dimensions (l x w x h) mm
108482		110	60	1 x 15	640 x 66 x 113
108486		230	50	1 x 15	640 x 66 x 113
108490		220	60	1 x 15	640 x 66 x 113

Non watertight Fluo-fixtures with opal shade, for indoor use

Cat. no.	Impa no.	Voltage	Hz	Watts	Dimensions (l x w x h) mm
108230	791841	110	60	1 x 18	655 x 103 x 108
108236	791843	110	60	2 x 18	655 x 190 x 95
108260	791842	110	60	1 x 36	1260 x 103 x 108
108266	791844	110	60	2 x 36	1260 x 190 x 95
108330		220	50	1 x 18	655 x 103 x 108
108336		220	50	2 x 18	655 x 190 x 95
108360		220	50	1 x 36	1260 x 103 x 108
108366		220	50	2 x 36	1260 x 190 x 95
108430	791902	220	60	1 x 18	655 x 103 x 108
108436	791903	220	60	2 x 18	655 x 190 x 95
108460	791846	220	60	1 x 36	1260 x 103 x 108
108466	791847	220	60	2 x 36	1260 x 190 x 95

Non watertight Circle Fluo-fixtures with opal shade, for indoor use

Cat. no.	Voltage	Hz	Watts	Dimensions (dia x h) mm
108612	110	60	1 x 22	ø 250 x 85
108618	110	60	1 x 32	ø 350 x 85
108648	230	50	1 x 22	ø 250 x 85
108654	230	50	1 x 32	ø 350 x 85
108684	220	60	1 x 22	ø 250 x 85
108690	220	60	1 x 32	ø 350 x 85

Watertight Fluo-fixtures 24, 110, 220V DC with shade IP65

Housing: impact resisting polycarbonate grey.
Diffuser: prismatized transparent impact resisting polycarbonate

Cat. no.	Voltage		Watts	Dimensions (l x w x h) mm
109030	24	DC	1 x 18	675 x 105 x 106
109036	24	DC	2 x 18	675 x 166 x 106
109060	24	DC	1 x 36	1278 x 105 x 106
109066	24	DC	2 x 36	1278 x 166 x 106
109130	110	DC	1 x 18	675 x 105 x 106
109136	110	DC	2 x 18	675 x 166 x 106
109230	220	DC	1 x 18	675 x 105 x 106
109236	220	DC	2 x 18	675 x 166 x 106
109260	220	DC	1 x 36	1278 x 105 x 106
109266	220	DC	2 x 36	1278 x 166 x 106

Watertight Fluo-fixtures with shade IP54

Cat. no.		Voltage	Hz	Watts	Dimensions (l x w x h) mm
109512		110	60	1 x 8	345 x 105 x 74
109612		220	50/60	1 x 8	345 x 105 x 74

Watertight Fluo-fixtures Type TOP with shade IP65

Housing: impact resisting polycarbonate grey
Diffuser: prismatized transparent impact resisting polycarbonate

Cat. no.	Impa no.	Voltage	Hz	Watts	Dimensions (l x w x h) mm
109530	791881	110	60	1 x 18	675 x 105 x 106
109536	791882	110	60	2 x 18	675 x 166 x 106
109560	791881	110	60	1 x 36	1278 x 105 x 106
109566	791882	110	60	2 x 36	1278 x 166 x 106
109572	791881	110	60	1 x 58	1600 x 95 x 110
109578	791882	110	60	2 x 58	1600 x 185 x 110
109630		230	50	1 x 18	675 x 105 x 106
109636		230	50	2 x 18	675 x 166 x 106
109660		230	50	1 x 36	1278 x 105 x 106
109666		230	50	2 x 36	1278 x 166 x 106
109672		230	50	1 x 58	1600 x 95 x 110
109578		230	50	2 x 58	1600 x 185 x 110

109730	791912	220	60	1 x 18	675 x 105 x 106
109736	791913	220	60	2 x 18	675 x 166 x 106
109760	791886	220	60	1 x 36	1278 x 105 x 106
109766	791887	220	60	2 x 36	1278 x 166 x 106
109772		220	60	1 x 58	1600 x 95 x 110
109778		220	60	2 x 58	1600 x 185 x 110

Gewiss Watertight Fluo-fixtures type ZNT with shade IP65

Housing: impact resisting polycarbonate grey RAL-7035
Diffuser: prismatized transparent impact resisting polycarbonate
Seal: neoprene
Diffuser closing clips: stainless steel

Cat. no.	Impa no.	Voltage	Hz	Watts	Dimensions (l x w x h) mm
109830	791881	110	60	1 x 18	680 x 135 x 112
109836	791882	110	60	2 x 18	680 x 195 x 112
109860	791883	110	60	1 x 36	1290 x 135 x 112
109866	791884	110	60	2 x 36	1290 x 195 x 112

109930		230	50	1 x 18	680 x 135 x 112
109936		230	50	2 x 18	680 x 195 x 112
109960		230	50	1 x 36	1290 x 135 x 112
109966		230	50	2 x 36	1290 x 195 x 112

continue on next page

continuation

Gewiss Watertight Fluo-fixtures type ZNT with shade IP65

Housing: impact resisting polycarbonate grey RAL-7035
Diffuser: prismatized transparent impact resisting polycarbonate
Seal: neoprene
Diffuser closing clips: stainless steel

Cat. no.	Impa no.	Voltage	Hz	Watts	Dimensions (l x w x h) mm
110030	791912	220	60	1 x 18	680 x 135 x 112
110036	791913	220	60	2 x 18	680 x 195 x 112
110060	791886	220	60	1 x 36	1290 x 135 x 112
110066	791887	220	60	2 x 36	1290 x 195 x 112

Watertight Fluo-fixtures with shade and guard IP56

Housing: galvanized steel, coated in-/outside
Diffuser: clear impact resisting polycarbonate

Cat. no.	Impa no.	Voltage	Hz	Watts	Dimensions (l x w x h) mm
110080	791872	110	60	2 x 18	690 x 185 x 151
110088	791874	110	60	2 x 36	1292 x 185 x 151
110090		230	50	2 x 18	690 x 185 x 151
110198		230	50	2 x 36	1292 x 185 x 151
110100	791911	220	60	2 x 18	690 x 185 x 151
110108	791877	220	60	2 x 36	1292 x 185 x 151

High-watertight Tube Fluo-fixtures IP68

Cover tube: clear polycarbonate
Mounting: 2 fixing clamps: stainless steel

Cat. no.	Voltage	Hz	Watts	Dimensions (l x w x h) mm
110110	110	60	1 x 18/20	1058 x 152 x 70
110112	110	60	1 x 36/40	1748 x 152 x 70
110116	230	50	1 x 18/20	1058 x 152 x 70
110118	230	50	1 x 36/40	1748 x 152 x 70
110122	220	60	1 x 18/20	1058 x 152 x 70
110124	220	60	1 x 36/40	1748 x 152 x 70

Aqua Signal Watertight Fluo-fixtures with shade IP67

Housing: zinc coated steel deep drawn, seamless
Diffuser: impact resisting polycarbonate
Seal: neoprene
Diffuser closing clips: stainless steel

Cat. no.	Voltage	Hz	Watts	Dimensions (l x w x h) mm
110126	230	50/60	2 x 18	692 x 193 x 134
110132	230	50/60	2 x 36	1340 x 150 x 134

FLUORESCENT LIGHTING

Glamox Watertight Fluo-fixtures with shade IP66/67

Housing: stainless steel
Diffuser: impact resisting polycarbonate
Seal: neoprene
Diffuser: closing clips: stainless steel

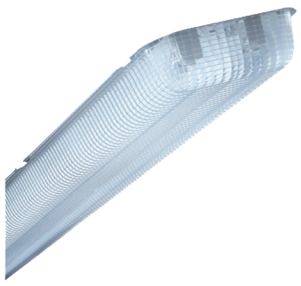
Cat. no.	Voltage	Hz	Watts	Dimensions (l x w x h) mm
110166	220	60	2 x 18	725 x 165 x 128
110172	220	60	2 x 36	1334 x 165 x 128

SPARE PARTS FOR FLUORESCENT LIGHTING

Shades for Watertight Fluo-fixtures type TOP

Diffuser: impact resisting polycarbonate

Cat. no.	Watts	Shade for watertight fixture TOP
110230	1 x 18	Shade for watertight fixture TOP
110236	2 x 18	Shade for watertight fixture TOP
110260	1 x 36	Shade for watertight fixture TOP
110266	2 x 36	Shade for watertight fixture TOP
110272	1 x 58	Shade for watertight fixture TOP
110278	2 x 58	Shade for watertight fixture TOP



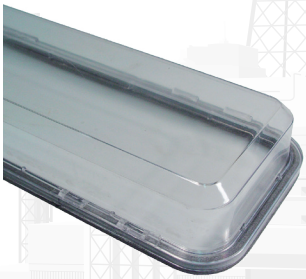
Shades for Gewise Watertight Fluo-fixtures type ZNT

Diffuser: impact resisting polycarbonate with s.s. spare clamps

Cat. no.	Watts	
110330	1 x 18	Shade for watertight fixture Gewiss
110336	2 x 18	Shade for watertight fixture Gewiss
110360	1 x 36	Shade for watertight fixture Gewiss
110366	2 x 36	Shade for watertight fixture Gewiss

Shades for Kokosha Watertight Fluo-fixtures type LS

Cat. no.	Watts	Colour	Type	Dimensions (l x w x h) mm
110382	2 x 18/20	Clear	LS-768	690 x 177 x 61
110386	2 x 36/40	Clear	LS-769	1300 x 180 x 70



Shades for Aqua Signal Watertight Fluo-fixtures type 1044/1444			
Cat. no.	***Watts***	***Colour***	***Dimensions (l x w x h) mm***
110412	1/2 x 18/20	Clear	686 x 171 x 58
110424	1/2 x 36/40/115	Clear	1337 x 127 x 58
110460	1/2 x 18/20	Opal	686 x 171 x 58
110472	1/2 x 36/40/115	Opal	1337 x 127 x 58

Shades for Glamox Watertight Fluo-fixtures type MIR/MIL			
Cat. no.	***Watts***	***Colour***	***Dimensions (l x w x h) mm***
110480	2 x 18	Clear	675 x 140 x 65
110486	2 x 36	Clear	1285 x 140 x 65

Fig. 1

Fig. 2

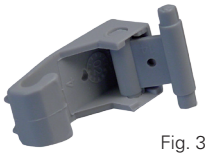


Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

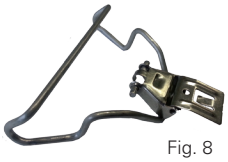


Fig. 8

Shades for Gewise Watertight Fluo-fixtures type ZNT			
Diffuser: impact resisting polycarbonate with s.s. spare clamps			
Cat. no.		***Description***	***Fig.***
110500	PVC	for Top watertight fluo fixture	1
110502	Stainless Steel	for Top watertight fluo fixture	2
110506	PVC	for Framas watertight fluo fixture type FRA	3
110512	Stainless Steel	for Framas watertight fluo fixture type FRA	4
110518	Stainless Steel	for Gewiss fluo fixture type ZNT	5
110524	Stainless Steel	for Aqua Signal fluo fixture type 1044/1444	6
110530	Stainless Steel	for old Aqua Signal fluo fixture type 1044	7
110542	Stainless Steel	for Glamox fluo fixture type MIR/MIX/MIL1	8

Fig. 1

Fig. 2

Fig. 3

Fig. 4

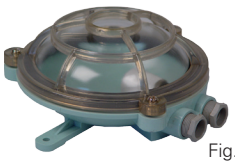


Fig. 5

Fig. 6

Bulleyes for incandescent lamps

Cat. no.	Impa no.	Max. Watts	Cap	Description	IP	Fig.
111006		60	B22	Oval, PVC with metal guard	43	2
111012		60	B22	Oval, aluminium with guard	43	2
111018		60	B22	Oval, brass with guard	54	3
111030	792102	60	E27	Oval, PVC with guard	44	1
111054		60	E27	Oval, PVC with metal guard	44	2
111060	792101	60	E27	Oval, aluminium with guard	43	2
111066		60	E27	Oval, brass with guard	54	3
111072		100	E27	Oval, aluminium with guard	43	2
111112		60	B22	Round, Japanese synthetic resin with guard	56	5
111124		100	B22	Round Ø230mm, Brass with guard	56	6
111036		60	E27	Round, PVC white with guard	44	4
111160	792066	60	E27	Round, Japanese synthetic resin with guard	56	5
111172		100	E27	Round Ø230mm, Brass with guard	56	6

Fig. 1

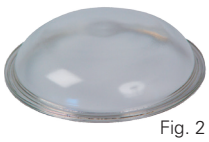


Fig. 2

Fig. 3

Spare globes for Bulleyes

Cat. no.	Impa no.	Max. Watts	Sizes mm	Description	Fig.
111208		60	184 x 92 x 60	Oval glass globe for brass bulleyes cat.no. 111018/111066	1
111212	792076	60	dia 190 x 65	Round glass globe for Japanese bulleyes cat.no. 111112/111160	2
111224		100	dia 185 x 52	Round glass globe for brass bulleyes cat.no 111124/111172	3

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Well glass fittings IP56, German type

Housing of cast brass
Clear glass globe and cast brass screw guard
Also available in coloured glass globe

Cat. no.	Max. Watts	Cap	Description	IP	Fig.
111366	100	B22	With 1 gland entry O-	56	1
111370	100	B22	With 2 gland entry -O-	56	2
111374	100	B22	With 2 gland entry O=	56	3
111380	100	B22	Suitable for wall-mounting with 1 side entry O-	56	4
111382	100	B22	Suitable for wall-mounting with 2 side entry -O-	56	5
111386	100	B22	Suitable for wall-mounting	56	6
111416	100	E27	With 1 gland entry O-	56	1
111420	100	E27	With 2 gland entry -O-	56	2
111424	100	E27	With 2 gland entry O=	56	3
111430	100	E27	Suitable for wall-mounting with 1 side entry O-	56	4
111432	100	E27	Suitable for wall-mounting with 2 side entry -O-	56	5
111436	100	E27	Suitable for wall-mounting	56	6

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Well glass fittings IP56, Japanese type

Housing of synthetic resin
Clear glass globe and PVC screw guard
Also available in coloured glass globe

Cat. no.	Impa no.	Max. Watts	Cap	Description	IP	Fig.
111812	792052	20	Ba15d	Well glass fitting 20W Ba15d Japanese-type SAO-80 O=	56	1
111818	792067	20	Ba15d	Well glass fitting 20W Ba15d Japanese-type SAO-80 wall-mounting	56	2
111824	792058	60	B22	Well glass fitting 60W B22 Japanese-type SAO-90 phenol	56	3
111830		60	B22	Well glass fitting 60W B22 Japanese-type SAO-90 wall-mounting phenol	56	4
111912		20	E12	Well glass fitting 20W E12 Japanese-type SAO-80 O=	56	1
111918		20	E12	Well glass fitting 20W E12 Japanese-type SAO-80 wall-mounting	56	2
111924	792057	60	E26	Well glass fitting 60W E26 Japanese-type SAO-90 phenol	56	3
111930	792068	60	E26	Well glass fitting 60W E26 Japanese-type SAO-90 wall-mounting phenol	56	4
111936	792060	100	E26	Well glass fitting 100W E26 Japanese-type SAO-120 O=	56	5
111948	792062	100	E26	Well glass fitting 200W E26 Japanese-type SAO-135 O=	56	5

Fig. 1

Fig. 2

Fig. 3

Fig. 4

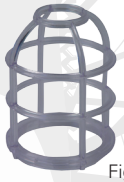


Fig. 5

Fig. 6

Guards for well glass fittings

Cat. no.	Impa no.	Description	Fig.
112012		Guard/glass globe for German well glass fitting	1
112016		Guard for German well glass fitting M100 x 2 mm	2
117484		Guard for rubber portable lamp	3
112060		Guard for Japanese well glass fitting, type SAO-57 polycarbonate	4
112066	792049	Guard for Japanese well glass fitting, type SAO-80 polycarbonate	4
112072	792064	Guard for Japanese well glass fitting, type SAO-90 polycarbonate	5
112074		Guard for Japanese well glass fitting, type SAO-90 metal	6
112078		Guard for Japanese well glass fitting, type SAO-120 metal	6

Rubber gaskets for well glass fittings

Cat. no.	Description
112148	Rubber O-ring 92x2,5mm for German glass upper ring
112146	Rubber gasket 95x71x1,5mm for German glass lower ring
112144	Rubber wall gasket for German well glass 111386/111436
112130	Rubber gasket 80x70x4mm for SAO-90 glass lower ring

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Spare glass globe for well glass fitting, German type

		Outside		
Cat. no.	Description	d x l mm	Colour	Fig.
112282	German flange type with drop hole, type 399	94 x 115	Clear	1
112286	German flange type with drop hole, type 399	94 x 115	Red	1
112288	German flange type with drop hole, type 399	94 x 115	Green	1
112292	German flange type without drop hole, type 399	94 x 115	Clear	1
112294	German flange type without drop hole, type 399	94 x 115	Red	1
112296	German flange type without drop hole, type 399	94 x 115	Green	1
112298	German flange type without drop hole, type 399	94 x 115	Yellow	1
112300	German flange type without drop hole, type 399	94 x 115	Blue	1
112302	German flange type with drop hole, type 401	132 x 160	Clear	2
112360	German screw type M100x2, type 154	100 x 115	Clear	3
112372	German screw type M100x2, type 154/G	100 x 115	Clear	4
112384	German screw type M100x2, type 155	124 x 115	Opal	5

Fig. 1

Spare glass globe for well glass fitting, Japanese type

			Outside			
Cat. no.	Impa no.	Type	d x l mm	Colour	Dia screw	Fig.
112306	792071	FAO-90	105 x 150	Clear	Flange	1
112308	792074	FAO-90	105 x 150	Red	Flange	1
112310	792073	FAO-90	105 x 150	Green	Flange	1
112312	792072	FAO-90	105 x 150	Blue	Flange	1
112316	792075	FAO-90	105 x 150	Yellow	Flange	1

Fig. 2

Fig. 3

112318	792081	SAO-57	57 x 75	Clear	60	2
112330	792082	SAO-80	80 x 90	Clear	84	2
112342	792083	SAO-90	82 x 150	Clear	84	3
112344	792086	SAO-90	82 x 150	Red	84	3
112346	792085	SAO-90	82 x 150	Green	84	3
112348	792084	SAO-90	82 x 150	Blue	84	3
112350	792087	SAO-90	82 x 150	Yellow	84	3
112406	792089	SAO-120	120 x 175	Clear	123	3
112408		SAO-120	120 x 175	Red	123	3
112410		SAO-120	120 x 175	Green	123	3
112412		SAO-120	120 x 175	Blue	123	3
112416		SAO-120	120 x 175	Yellow	123	3
112424	792090	SAO-135	135 x 225	Clear	123	3
112426		SAO-135	135 x 225	Red	123	3
112428		SAO-135	135 x 225	Green	123	3
112430		SAO-135	135 x 225	Blue	123	3
112432		SAO-135	135 x 225	Yellow	123	3

Spare glass globe for well glass fitting, Swedish type

Cat. no.	Type	Outside d x l mm	Colour
112272	2108	93 x 150	Clear
112274	2108	93 x 150	Red
112276	2108	93 x 150	Green

Fig. 1

Fig. 2

Fig. 3

Spare glass globe for portable handlamp

Cat. no.	Description	Fig.
117478	Spare glass for rubber portable handlamp, small type	1
117480	Spare glass for rubber portable handlamp, big type	1
121584	Spare glass for Ex proof handlamp cat. no. 121580	2
121612	Spare glass for Ex proof handlamp cat. no. 121600	3

HALOGEN FLOODLIGHTS

Halogen floodlight fixture R7s, light metal

Cat. no.	Max. Watts	Description	Cap	IP
113018	150	For halogen lamp 78 mm	R7s	44
113030	500	For halogen lamp 118 mm	R7s	44
113054	1000	For halogen lamp 189 mm	R7s	44
113078	1500	For halogen lamp 254 mm	R7s	44
113090	2000	For halogen lamp 334 mm	R7s	44

Philips halogen floodlight fixture R7s, light metal

PHILIPS

Cat. no.	Max. Watts	Description	Cap	IP
113042	500	For halogen lamp 118 mm	R7s	54
113066	1000	For halogen lamp 189 mm	R7s	54
113082	1500	For halogen lamp 254 mm	R7s	54

Sylvania halogen floodlight fixture R7s, aluminium

Frame with a protective glassplane reinforce glass with wires

Cat. no.	Max. Watts	Description	Cap	IP
113106	500	For halogen lamp 118 mm	R7s	54
113110	1000	For halogen lamp 189 mm	R7s	54
113114	1500	For halogen lamp 254 mm	R7s	54
113116	1000	For halogen lamp 334 mm	R7s	54

Heavy Duty halogen floodlight fixture R7s, high grade special coating

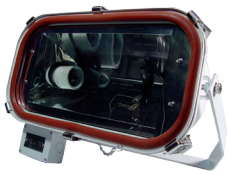
Cat. no.	Max. Watts	Description	Cap	IP
113120	500	For halogen lamp 118 mm	R7s	66
113122	1000/1500	For halogen lamp 189/254 mm	R7s	66

Stainless Steel halogen floodlight fixture R7s

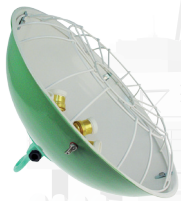
Cat. no.	Max. Watts	Description	Cap	IP
113128	500	For halogen lamp 118 mm	R7s	67
113136	1000	For halogen lamp 189 mm	R7s	67

HALOGEN FLOODLIGHTS

Stainless Steel halogen floodlight fixture R7s				
Cat. no.	***Max. Watts***	***Description***	***Cap***	***IP***
113148	500	For halogen lamp 118 mm with 2 mtr cable	R7s	44
113160	1000	For halogen lamp 189 mm with 5 mtr cable	R7s	54



Stainless Steel halogen floodlight fixture E40				
Cat. no.	***Max. Watts***	***Description***	***Cap***	***IP***
113196	500/1000	For double envelope lamp	E40	67



Cargo clusters with wire guard and suspension hook

Cat. no.	Impa no.	Max. Watts	Description
113520	792008	75	For 5-lamps, with lampholder B22
113536	792007	75	For 5-lamps, with lampholder E27
113600	792003	500	For 1-lamp, with lampholder E40

Fig. 1

Fig. 2

Uni-economy/20 full rubber fixture, complete with macrolon shade

With lampholder E27
GLS-lamps maximum 200 Watts

Cat. no.	Impa no.	Description	Ip	Fig.
113624	792001	Fixture with metal hook, suitable for serial wire mounting	55	1
113632		Fixture floor stand with reel, without cable	54	2
113640		Fixture floor stand with reel and 2 receptacles with earth, without cable	44	3
113648		Spare macrolon shade for above		4

Fig. 3

Fig. 4

German Floodlights

Cat. no.	Impa no.	Description	Ip	Fig.
113672	792012	With lampholder B22, for incandescent lamp max. 200W or HPM max. 125W	56	1
113680	792011	With lampholder E27, for incandescent lamp max. 200W or HPM max. 125W	56	1
113700	792014	With lampholder E40, for incandescent lamp max. 1000W or HPM/HPS max. 400W	56	2

Fig. 1

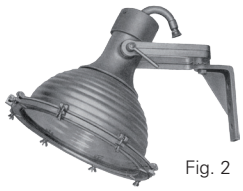


Fig. 2

Japanese Reflector lighting fixtures

Cat. no.	Impa no.	Description	Mounting	Fig.
113706	791801	E26, for reflector lamps 100, 150, 200W	Flange-base	1
113712	791802	E39, for reflector lamps 300, 500W	Flange-base	1
113736	791803	E26, for reflector lamps 100, 150, 200W	Screw-clamp	2
113742	791804	E39, for reflector lamps 300, 500W	Screw-clamp	2

Fig. 1

Fig. 2

Japanese Reflector lighting fixtures Cheap type

Cat. no.	Impa no.	Description	Mounting	Fig.
113756	791801	E27, for reflector lamps 100, 150, 200W	Flange-base	1
113757	791802	E39, for reflector lamps 300, 500W	Flange-base	1
113760	791803	E26, for reflector lamps 100, 150, 200W	Screw-clamp	2
113761	791804	E39, for reflector lamps 300, 500W	Screw-clamp	2

Fig. 1

Fig. 2

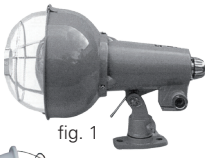


fig. 1

fig. 2

fig. 3

Japanese Mercury lamp lighting fixtures

Cat. no.	Impa no.	Description	Mounting	Fig.
113718	791811	E39, for HRF mercury lamps 300, 500W and HR-300N, 400N	Flange-base	1
		Cheap type		
113758	791811	E39, for HRF mercury lamps 300, 500W and HR-300N, 400N	Flange-base	2
113748	791812	E39, for HRF mercury lamps 300, 500W and HR-300N, 400N	Screw-clamp	3

Japanese Flood lighting fixtures

Cat. no.	Impa no.	Description	Beam angle
113766	791816	E39, for mercury lamps GLS-1000, HF-700, 1000W or NH-700, 1000W	Narrow 20^0
113772	791817	E39, for mercury lamps GLS-1000, HF-700, 1000W or NH-700, 1000W	Wide 55^0

Japanese Boat deck light

Cat. no.	Impa no.	Description	Mounting
113804	792028	PAR, with Sealed Beam lamp 24V 60/40W	Flange-base
113806	792029	PAR, with Sealed Beam lamp 24V 100W	Flange-base

Japanese Projector type cargo light

Cat. no.	Impa no.	Description
113810	792013	E39, with bracket for GLS-300W

Japanese Boat deck light

Cat. no.	Impa no.	Description
113818	792026	E39, with flange for GLS-500W

Japanese Floodlighting projector

Cat. no.	Impa no.	Description
113832	792032	E39, with bracket for GLS-500W

Floodlight for high-pressure lamps, complete with ballast

Cat. no.	Impa no.	Voltage	Hz	Watts	Description	IP
113912	791821	110	60	400	E40, for HPS-T	66
113884		230	50	400	E40, for HPS-T, MH-T	66
113888	791822	220	60	400	E40, for HPS-T, MH-T	66
113940	791824	220	60	2 x 400	E40, for 2-lamps HPS-T, MH-T	66

Floodlight for high-pressure lamps, without ballast

Cat. no.	Watts	Description	IP
113850	1 x 250/400	Floodlight for 1x HPS-T/MH-T	67
113932	2 x 250/400	Floodlight for 2x HPS-T 400W	66

Gearbox for above Floodlight, complete with ballast

Cat. no.	Voltage	Hz	Watts	Description	IP
113860	110	60	400	for 1 lamp HPS(T)	67
113864	220	60	400	for 1 lamp HPS(T)	67
113960	220	60	400	for 2 lamps HPS(T)	65

Gewiss Floodlight for high-pressure lamps, complete with ballast

Cat. no.	Impa no.	Voltage	Hz	Watts	Description	IP
113920		230	50	400	E40, for HPS-T, MH-T	66
113928	791822	220	60	400	E40, for HPS-T, MH-T	66

Gewiss Floodlight for high-pressure lamps, without ballast

Cat. no.	Watts	Description	IP
113954	1000	E40, for HPS-T, MH-T with ignitor	66

Gewiss Gearbox for above Floodlight, complete with ballast

Cat. no.	Voltage	Hz	Watts	Description	IP
113966	230	50	1000	For HPS(T), MH(T) excl. ignitor	65
113974	220	60	1000	For HPS(T), MH(T) excl. ignitor	65

Spare parts for Gewiss high-pressure floodlight fixtures

Cat. no.	Description	For flooflight Cat. no.
113992	Glass 390 x 300 mm	113920, 113928
113994	Protective wire guard	113920, 113928
113998	Glass 615 x 550 mm	113954

DAYLIGHT SIGNALLING LIGHTS

fig. 1

fig. 2

fig. 3

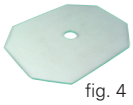


fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

Signalling Lights and Accessories

Cat. no.	Impa no.	Description	Fig.
115108	330642	Long range day and night hand signaling lamp 12V with 4-poles plug in case	1
115112	330641	Long range day and night hand signaling lamp 24V with 4-poles plug in case	1
115206	330644	Aldis carrying case 12V with batteries and receptacle 4-poles	2
115212	330647	Aldis carrying case 24V with batteries and receptacle 4-poles	2
115124		Reflector for handsignalling lamp type CXD8	3
115126		Glass for handsignalling lamp type CXD8	4
185772		Receptacle/Socket watertight 4-pole Aldis surface mntg	5
185778		Plug watertight 4-pole Aldis	6
115224	330646	Batterycharger 220V 50/60HZ 12A 12/24V complete with Aldis Plug	7
115226	330646	Batterycharger for Wall mounting, 220V 50/60HZ 24V AC/DC	8

WATERTIGHT SEARCHLIGHTS

Watertight Portable Searchlight wit 3 mtr. cable

Cat. no.	Impa no.	Voltage	Watts	Description	IP
115306		12	50	With PAR36 halogen lamp	68
115310	330264	24	75	With PAR36 lamp	68
115314				Slip-on holder for above	

Searchlight - Deck mounted Ø210mm

Cat. no.	Voltage	Watts	Description	Range	IP
115412	28	250	With PAR64 lamp	700 m	X5
115418	115	1000	With PAR64 lamp	630 m	X5
115424	230	1000	With PAR64 lamp	630 m	X5

Extended version on request

DAYLIGHT SIGNALLING LIGHTS

Searchlight - Deck mounted Ø350 mm

Cat. no.	Voltage	Watts	Description	Range	IP
115448	24	250	With halogen lamp G6,35	904 m	66
115454	115	1000	With halogen lamp GX9.5	974 m	66
115460	230	1000	With halogen lamp GX9.5	1104 m	66

Extended version on request

Searchlight - Cabin control mounted Ø210 mm

Cat. no.	Voltage	Watts	Description	Range	IP
115512	28	250	With PAR64 lamp	700 m	X5
115518	115	1000	With PAR64 lamp	630 m	X5
115524	230	1000	With PAR64 lamp	630 m	X5

Searchlight - Cabin control mounted Ø350 mm

Cat. no.	Voltage	Watts	Description	Range	IP
115548	24	250	With halogen lamp G6,35	904 m	66
115554	115	1000	With halogen lamp GX9.5	974 m	66
115560	230	1000	With halogen lamp GX9.5	1104 m	66

Searchlight - Deck mounted Ø360, 420, 450 mm

Cat. no.	Impa no.	Voltage	Watts	Description	Range	IP
115576	370485	110 or 220	2000	Ø360mm for halogen lamp GY16	1300 m	56
115578	370486	110 or 220	2000	Ø420mm for halogen lamp GY16	1500 m	56
115586	370481/82	110 or 220	2000	Ø450mm for halogen lamp GY16	1400/1700 m	56

Suez Canal Searchlight - Deck mounted

Application: Vessels transiting the Suez Canal

Cat. no.	Impa no.	Voltage	Watts	Description	Range	IP
115600	370511	120 or 230	2000 (3000)	With 2 halogen lamps 2000W G38	1800	56

Application range : Vessels of 20 meters in length and above
Approval : COLREG '72
Protection class : IP56, dust- and waterproof
Lampholder : P28s

Single type Sectional, with certificate without Lamp

Cat. no.	Impa no.	Type	Colour	Section	Min. Visibility
115806		Starboard	Green	112,5°	3 N.miles
115812		Port	Red	112,5°	3 N.miles
115818		Masthead	Clear	225°	6 N.miles
115824		Stern*	Smoky	135°	3 N.miles
115830		Suez	Red	135°	----------
115836	370425	Towing	Yellow	135°	3 N.miles

* The Stern lantern can also be used as Elbe lantern

Single type All Round, with certificate without Lamp

Cat. no.	Impa no.	Type	Colour	Section	Min. Visibility
115848	370426	Anchor	Smoky	360°	3 N.miles
115854		Manoeuvring	Clear	360°	5 N.miles
115860	370427	Not Under Command	Red	360°	3 N.miles
115866	370428	Fishing	Green	360°	3 N.miles
115872		Kiel Canal	Yellow	360°	3 N.miles
115878		Hoistable	Smoky	360°	3 N.miles
115884		Hoistable	Red	360°	3 N.miles
115890		Hoistable	Green	360°	3 N.miles

Duplex type Sectional, with certificate without Lamp

Cat. no.	Impa no.	Type	Colour	Section	Min. Visibility
115906	370422	Starboard	Green	112,5°	3 N.miles
115912	370423	Port	Red	112,5°	3 N.miles
115918	370421	Masthead	Clear	225°	6 N.miles
115924	370424	Stern	Clear	135°	3 N.miles
115936		Towing	Yellow	135°	3 N.miles

NAVIGATION LIGHTS - DUPLEX

Duplex type All Round, with certificate without Lamp				
Cat. no.	Type	Colour	Section	Min. Visibility
115948	Anchor	Smoky	360°	3 N.miles
115960	Not Under Command	Red	360°	3 N.miles
115966	Fishing	Green	360°	3 N.miles

Duplex type Sectional, with certificate without Lamp				
Cat. no.	Type	Colour	Section	Min. Visibility
115986	Panama/Suez/Kiel	Blue	60°	

NAVIGATION LIGHTS SPARE PARTS

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

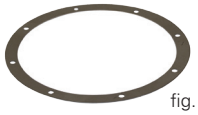


fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

Spare parts for Navigation Lights			
Cat. no.	Description	Part. no.	Fig.
116010	Top part complete	70998000	1
116014	Middle part with cable	70990050	2
116018	Base part with cable	70993000	3
116022	Gasket 159x121x2mm	70990060	4
116026	Gasket 183x144x2mm	70990055	5
116030	Mounting ring - small	70990045	6
116034	Mounting ring - large	70990040	7
116038	Screen for Side lights	70990210	8
116042	Screen for Masthead	70990220	8
116046	Screen for Stern & Towing	70990230	8
116050	Spare glass Red	70997001	9
116054	Spare glass Green	70997002	9
116058	Spare glass Crystal Clear	70997003	9
116062	Spare glass Smoky	70997004	9
116066	Spare glass Yellow	70997005	9
116070	Lampholder P28s with bridge	70992001	10
116074	Handle for hoisting	70999900	
500232	Navigation Lamp 24V 40W 60cd P28s		
500252	Navigation Lamp 115V 60W 60cd P28s		
500262	Navigation Lamp 230V 65W 60cd P28s		

SIGNALLING LIGHTS

Signalling Light IP66, Stainless Steel

- Signalling purposes, such as for vessel transiting the Suez canal
- For general lighting

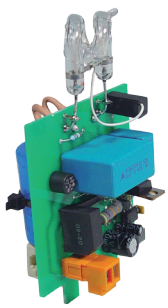
Cat. no.	Description	Colour
116242	With lampholder B22	Clear
116248	With lampholder B22	Red
116254	With lampholder B22	Green
116260	With lampholder B22	Yellow
116266	With lampholder B22	Blue
116272	With lampholder E27	Clear
116278	With lampholder E27	Red
116284	With lampholder E27	Green
116290	With lampholder E27	Yellow
116296	With lampholder E27	Blue

FLASHING LIGHTS

Xenon Flashing Light IP66, Stainless Steel

- For ships carrying dangerous cargoes, ships > 200 meter, hovercrafts, submarines and fishing vessels.
- On vessels of official guards, fire fighting vessels and vessels on duty in open inland waters

Cat. no.	Impa. no.	Voltage	Colour
116312		24V DC	Clear
116318		24V DC	Red
116324		24V DC	Green
116330		24V DC	Yellow
116336		24V DC	Blue
116342		115V AC	Clear
116348	370466	115V AC	Red
116354	370461	115V AC	Green
116360		115V AC	Yellow
116366		115V AC	Blue
116372		230V AC	Clear
116378	370468	230V AC	Red
116384	370463	230V AC	Green
116390		230V AC	Yellow
116396		230V AC	Blue



Xenon unit for Flashing Light

Cat. no.	Voltage	Wattage/second
116408	24V DC	6
116412	115V AC	16
116416	230V AC	16

fig. 1

fig. 2

Celling or wall lighting fixtures for surface-mounting without globe

Cat. no.	Watts	Colour	Lampholder	Description	Fig.
117048	60	White	E27	Straight	1
117054	60	White	E27	Slant	2

Globes for celling or wall lighting fixtures

Cat. no.	Description
117078	Globe for ceiling/wall base 60W

Indoor circular luminaires

Cat. no.	dia x l mm	Lampholder	Max. Watts	Ip
117102	ø180 x 100	B22	60	44
117108	ø230 x 120	B22	100	44
117114	ø300 x 120	2x B22	2x 60	20
117120	ø180 x 100	E27	60	44
117126	ø230 x 120	E27	100	44
117132	ø300 x 120	2x E27	2x 60	20

fig. 1

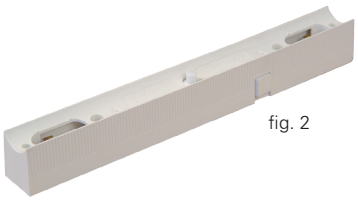


fig. 2

Fixtures for Linestra / Philinea lamps

Cat. no.	Description	Fig.
117180	Lampholder single contact S14s for Striplite lamp	1
117184	Lampholder double contact S14d for Striplight lamp	1
117190	Striplite Fixture set bakelite with switch 35W 2-contacts S14s	2
117202	Striplite Fixture set bakelite with switch 60W 2-contacts S14s	2

fig. 1

fig. 2

fig.3

fig. 4

Berth lights

Cat. no.	Impa no.	Description	Fig.
117260	792137	Berth light B22 with switch and receptacle 2x flat	1
117280	792136	Berth light E27 with switch and receptacle 2x flat	1
117266	792137	Berth Light B22 with switch B22 marine type	2
117286	792136	Berth Light E27 with switch E27 marine type	2
117292		Switch for Berthlight (117260/117280)	3
117298		Switch for Berthlight (117266/117286)	4

Mirror light

Cat. no.	Impa no.	Description
117310		Mirror light E14 max 2x40W with switch
117312		Spare Glass for Mirror light

Wall-lamp

Cat. no.	Impa no.	Description
117322		Wall lamp E27 with switch

Magnifying lamp

Cat. no.	Impa no.	Description
117334	371051	Magnifying lamp with table clamp

Chartroom fixture, elbow-hinge

Cat. no.	Impa no.	Description
117346		Chartroom fixture B22, elbow-hinge type, desk and wall-mounting
117352	792121	Chartroom fixture E27, elbow-hinge type, desk and wall-mounting

Chartroom fixture, harmonica type

Cat. no.	Impa no.	Description
117364		Chartroom fixture B22, harmonica type, wall-mounting
117370	792120	Chartroom fixture E27, harmonica type, wall-mounting

Desk/computer fixture

Cat. no.	Impa no.	Description
117382	792128	Desk/computer fixture 220V 50/60Hz with PL 11W, desk and wall-mounting

Desklamp, flexible arm

Cat. no.	Impa no.	Description
117388		Desk lamp E27 with switch

PORTABLE (FLUORESCENT) HANDLAMPS

fig. 1

fig. 2

fig. 3

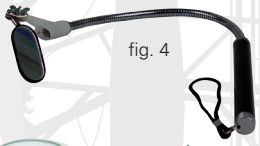


fig. 4

fig. 5

fig. 6

Portable handlamps watertight

Cat. no.	Impa no.	Description	Fig.
117406	792152	Rubber Portable handlamp B22	1
117412		Rubber Portable handlamp B22, complete with 15 mtr cable and plug	1
117424	792151	Rubber Portable handlamp E27	1
117430		Rubber Portable handlamp E27, complete with 15 mtr cable and plug	1
117442	792159	Japanese Portable handlamp B22 with glass SAO-90 and guard	2
117448	792158	Japanese Portable handlamp E26 with glass SAO-90 and guard	2
117460		Gripper Portable handlamp B22 with guard	3
117466		Gripper Portable handlamp E27 with guard	3
117470	652707	Portable Inspection light with flexible arm and mirror	4
117478		Spare glass for rubber portable handlamp 80 x 102 mm	5
117484		Spare guard for rubber portable handlamp	6

fig. 1

fig. 2

fig. 3

fig. 4

Portable fluorescent handlamps

Cat. no.	Impa no.	Description	Fig.
117506		Fluorescent portable handlamp 12V DC 8W with 5 mtr. cable IP20	1
117512		Fluorescent portable handlamp 24V DC 8W with 5 mtr. cable IP20	1
117518		Fluorescent portable handlamp 42V AC with PL lamp with 10 mtr cable and Cee-plug 42V	2
117524	792181	Fluorescent portable handlamp 110V AC 13W with cable and plug 2x flat	1
117530	792183	Fluorescent portable handlamp 220V AC TL8W with 5 mtr cable and plug	1
117538	792184	Fluorescent portable handlamp 230V AC PL11W IP44 with 5 mtr rubber cable and plug	3
117566		Goliath working fixture with ground stand & hook 220V AC TL 2D 38W	4

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

Bayonet lampholder Ba7s - Ba9s - Ba15d - Bay15d

Cat. no.	Impa. no.	Description	Fig.
118018		Lampholder Ba9s	1
118106	793516	Lampholder Ba15d, brass 3/8"K/M10x1	2
118112	793522	Lampholder Ba15d, brass with backplate	3
118118	793524	Lampholder Ba15d, brass with 2 mounting lugs	4
118124	793502	Lampholder Ba15d, resin Japanese flanged FB-15	5
118136		Lampholder Bay15d, brass for navigation light	6

fig. 7

fig. 8

fig. 9

fig. 10

fig. 11

fig. 12

fig. 13

fig. 14

fig. 15

fig. 16

Bayonet lampholder B22

Cat. no.	Impa. no.	Description	Fig.
118206		Lampholder B22, brass 3/8"K/M10x1	7
118212		Lampholder B22, resin 3/8"K/M10x1	8
118218	793517	Lampholder B22, brass 3/8"G	7
118220		Lampholder B22, brass M14x1,5	7
118224	793523	Lampholder B22, brass with backplate	9
118230	793525	Lampholder B22, brass with 2 mounting lugs	10
118236	793528	Lampholder B22, brass with 3 mounting lugs	11
118242		Lampholder B22, porcelain with back connection	12
118254		Lampholder B22, porcelain for portable handlamp with stress relief	13
118260		Lampholder B22, porcelain for Gripper handlamp	14
118266	793505	Lampholder B22, porcelain Japanese flanged FB22	15
118272	793508	Lampholder B22, porcelain Japanese tubular TB-22	16

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

fig. 11

fig. 12

fig. 13

fig. 14

fig. 15

fig. 16

fig. 17

fig. 18

fig. 19

fig. 20

fig. 21

fig. 22

fig. 23

Screw lampholder E10 - E12 - E14

Cat. no.	Impa. no.	Lampholder	Description	Fig.
118306		E10	Resin with backplate	1
118330	793501	E12	Resin Japanese flanged FE-12	2
118354		E14	Brass 3/8"K/M10x1	3
118360		E14	Resin 3/8"K/M10x1	4
118366	793526	E14	Brass with 2 mounting lugs	5
118372	793503	E14	Resin with backplate	6

Screw lampholder E26 - E27

Cat. no.	Impa. no.	Lampholder	Description	Fig.
118406	793520	E27	Brass 3/8"K/M10x1	7
118412		E27	Resin 3/8"K/M10x1	8
118418		E27	Resin 3/8"K =10mm with 2x ring, black	9
118430		E27	Porcelain 3/8''K/M10x1	10
118436		E27	Brass 3/8''G	7
118442		E27	Resin 3/8''G	8
118448		E27	Porcelain 3/8''G	10
118454	793527	E27	Brass with 2 mounting lugs	11
118460	793529	E27	Brass with 3 mounting lugs	12
118466		E27	Porcelain with back connection Europe type	13
118478		E27	Porcelain for DKN fixture	14
118482		E27	Porcelain for portable lamp	15
118484		E27	Porcelain for portable handlamp with stress relief	16
118490		E27	Porcelain for Gripper handlamp	17
118496	793504	E26	Porcelain Japanese flanged FE-26	18
118502	793507	E26	Porcelain Japanese tubular TE-26	19
118508	793510	E27	Resin Japanese with brim GE-26	20
118514		E27	Resin for illumination cable 13 mm	21
118515			Rubber Outside Ring for Illumination Lampholder (118514)	22
118532		E27	Rubber with 2-wires	23

LAMPHOLDERS

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

Screw lampholder E39 - E40				
Cat. no.	*Impa. no.*	*Lampholder*	*Description*	*Fig.*
118606	793506	E39	Brass Japanese flanged FE-39	1
118618	793509	E39	Porcelain Japanese tubulair TE39	2
118630	793521	E40	Brass/metal 3/8"G	3
118636	793521	E40	Porcelain 3/8"G	4
118648		E40	Porcelain for Ex chalmit fixture type 469	5

fig. 6

Lampholder P28s				
Cat. no.		*Lampholder*	*Description*	*Fig.*
118722		P28s	Resin	6

REDUCING LAMPHOLDERS

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

Adaptor lampholders				
Cat. no.	*Impa. no.*	*Lampholder*	*Description*	*Fig.*
118806		E17-E14	For lamp E14	1
118812		B22-E27	For lamp E27	2
118814		E27-G9	For lamp G9	3
118816		E27-GU10	For lamp GU10	4
118818		E27-B22	For lamp B22	5
118824		E27-E14	For lamp E14	6
118830		E27-E40	For lamp E40	7
118836	793540	E39-E27	For lamp E27	8
118842		E40-E27	For lamp E27	9

LAMPHOLDERS ACCESSORIES

fig. 1

fig. 2

Lampholder accessories

Cat. no.	Description	Fig.
118906	Brass, back connection plate with 3/8"K / M10 thread	1
118930	Brass, straight nipples 3/8"K / M10 x 15 mm	2

LAMPHOLDERS FOR HALOGEN

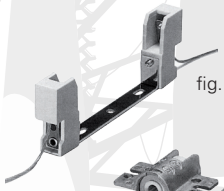


fig. 1

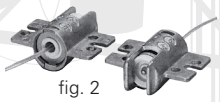


fig. 2

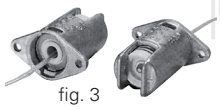


fig. 3

Lampholdes for halogen lamps

Cat. no.	Description	Fig.
118980	Halogeen lampholder 118mm. R7s on metal bracket, max 500W with wire	1
118986	Halogen lampholder R7s, max 1000W with side connection & wire	2
118992	Halogen lampholder R7s, max 2000W with back connection & wire	3

LAMPHOLDERS FOR SEARCHLIGHT AND PROJECTION LAMPS

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

Screw lampholder E26 - E27

Cat. no.	Lampholder	Fig.
119006	GU10	1
119018	G4, G5,3 and G6,35	2
119042	G/GX/GY/GZ6,35	3
119066	GX9,5	4
119078	GY9,5	5
119102	GY16	6
119114	GX16D	7
119126	G38	8

Ceag Ex Fluorescent Tube Fittings for G13 Bi-pin FL-lamp

Type of protection: ATEX II2G EEx ed IIC T4 for zone 1, 2 and zone 21 - IP66

Cat. no.	Impa no.	Wattage	Description
121200	791891	2 x 18	110-254V 50/60Hz and 110-250V DC Dimensions: 760 x 188 x 130mm
121212	791893	2 x 36	110-254V 50/60Hz and 110-250V DC Dimensions: 1360 x 188 x 130mm

Ceag Ex Emergency Fluorescent Tube Fittings for G13 Bi-pin FL-lamp

Type of protection: ATEX II 2 G Ex ed mb ib T4 for zone 1, 2 and zone 21 - IP66

Cat. no.	Wattage	Description
121250	2 x 18	220-254V 50/60Hz Dimensions: 900 x 188 x 130mm
121262	2 x 36	220-254V 50/60Hz Dimensions: 1500 x 188 x 130mm

Ex Fluorescent Tube Fittings for G13 Bi-pin FL-lamp

Type of protection: ATEX II 3 G Ex nR II T4 for zone 2 and zone 22 - IP65/67

Cat. no.	Wattage	Description
121300	2 x 18	220-240V 50/60Hz Dimensions: 703 x 173 x 114mm
121312	2 x 36	220-240V 50/60Hz Dimensions: 1313 x 209 x 147mm

Ex Fluorescent Tube Fittings for G13 Bi-pin FL-lamp

Type of protection: Exe IIC T6 for zone 1 and zone 2 - IP56

Cat. no.	Wattage	Description
121350	2 x 18/20	220V 60Hz. Dimensions: 164 x 775mm
121352	2 x 36/40	220V 60Hz. Dimensions: 164 x 1385mm

Ex rubber portable handlamp max. 60W

Type of protection: Exed II A T2 - IP56

Cat. no.	Impa no.	Description
121580	792171	Ex rubber portable handlamp E27
121584		Spare glass for Ex portable handlamp
121586		Spare lampholder E27 for Ex portable handlamp

Schuch Ex rubber portable handlamp max. 60W

Type of protection: ATEX II 2G Ex de IIC T3/T4 for zone 1 and zone 2 - IP65

Cat. no.	Impa no.	Description
121600	792171	Ex rubber portable handlamp E27
121612		Spare glass for Ex portable handlamp
121618		Spare lampholder E27 for Ex portable handlamp

Ex Brass light for incandescentlamp max. 60W

Type of protection: ATEX EEX ed IIC T3 - IP56

Cat. no.	Description	Gland position
121700	Ex brass well glass fixture E27	-O
121706	Ex brass well glass fixture E27	=O
121712	Ex brass well glass fixture E27	-O-
121724	Spare glass for Ex Brass light	
121730	Spare lampholder E27 for Ex Brass light	

Ex well glass fittings max. 200W

Type of protection: Exd IIB T3 - IP66

Cat. no.	Description	Gland position
121800	Ex well glass fixture E27 up to 200W E27 with Guard	O-

Ceag Ex well glass fittings max. 200W

Type of protection: ATEX EEX d/de IIC T4 for zone 1 and zone 2 - IP67

Cat. no.	Description	Gland position
121772	Ex well glass fixture E27 up to 200W E27 with Guard	-O-
121774	Ex well glass fixture E27 up to 200W E27 without Guard	-O-

121776	Spare glass for well glass fixture
121780	Spare guard for well glass fixture

Ex Halogen Floodlight

Type of protection: ATEX II 3GD Ex nR II T3/II 3G Ex nR II T3 - IP66

Cat. no.	Description
121900	Ex Halogen fixture 500W E40 IP66/67 zone 2
121912	Ex Halogen fixture 1000W E40 IP66, ATEX zone 2

Ex Floodlight

Type of protection: ATEX II 2GD Ex dIIC T3/T4 - IP66

Cat. no.	Description
122000	Ex Floodlight for HPM 400W, GLS 300/500W, Blended 500W E40 IP66 zone 1

Ex Floodlight with incorporated ballast

Type of protection: ATEX - II 3 GD Ex nR II T3 for zone 2 - IP67

Cat. no.	Description
122080	Ex Floodlight E40 for HPS-T/MH-T 400W including ballast 230V 60Hz

Aqua Signal Ex Floodlight with incorporated ballast

Type of protection: ATEX - II 3 GD Ex nR II T3 for zone 2 - IP67

Cat. no.	Description
122100	Ex n floodlight E40 for HPS-T 400W including ballast 220V 60Hz

Aqua Signal Ex Floodlight without ballast

Type of protection: ATEX II 3G Eex nR II T3/T2 for zone 2 - IP67

Cat. no.	Description
122200	Ex Floodlight E40 for 1x HPS-T/MH-T 250/400W
122212	Ex Floodlight E40 for 2x HPS-T/MH-T 250/400W

Aqua Signal Ex Ballast unit for Floodlights

Type of protection: ATEX II 3G Eex nR II T4 for zone 2 - IP67

Cat. no.	Description
122226	Ex Ballast box IP67 for 1x HPS/MH 250W, 220V 60Hz
122232	Ex Ballast box IP67 for 1x MH 400W, 220V 60Hz
122236	Ex Ballast box IP67 for 1x HPS 400W, 220V 60Hz
122248	Ex Ballast E40 for 2 x HPS, 400W 220V 60Hz

fig. 1

fig. 3

fig. 2

Ex Brass Receptacle and Plugs

Type of protection: ATEX EEx de IIC T6 - IP56

Cat. no.	Description	Gland position	Fig.
122306	Ex Receptacle 16A 2 pole + earth 6H	-O	1
122312	Ex Receptacle 16A 2 pole + earth 6H	O-	1
122318	Ex Receptacle 16A 2 pole + earth 6H	-O-	1
122330	Ex Plug 16A 2 pole + earth 6H		2
122342	Ex Socket inset 16A 2 pole + earth 6H		3
122348	Ex Plug inset 16A 2 pole + earth 6H		

fig. 1

fig. 2

fig. 3

Ceag EX-Plugs and Sockets 220-240V 3-pol 16A 6H

Type of protection: ATEX II 2G Eex de IIC T6 for zone 1 and 2 - IP66

Cat. no.	Description	Fig.
122370	Wall socket with cable entry M25	1
122372	Plug with cable entry 9-17mm	2
122374	Coupler with cable entry 9-17mm	3

fig. 1

fig. 2

fig. 3

Ceag EX-Plugs and Sockets 380-415V 4-pol 16A 6H

Type of protection: ATEX II 2G Eex de IIC T6 for zone 1 and 2 - IP66

Cat. no.	Description	Fig.
122378	Wall socket with cable entry M25	1
122380	Plug with cable entry 9-17mm	2
122382	Coupler with cable entry 9-17mm	3

fig. 1

fig. 2

fig. 3

Ceag EX-Plugs and Sockets 380-415V 4-pol 32A 6H

Type of protection: ATEX II 2G Eex de IIC T6 for zone 1 and 2 - IP66

Cat. no.	Description	Fig.
122386	Wall socket with cable entry M40	1
122388	Plug with cable entry 12-28mm	2
122390	Coupler with cable entry 12-28mm	3

fig. 1

fig. 2

Ex Brass Rotary Switch

Type of protection: EEx de IIC T6 - IP56 ATEX

Cat. no.	Description	Gland position	Fig.
122406	Ex Rotary Switch 2 pole 16A/660V AC E	-O	1
122412	Ex Rotary Switch 2 pole 16A/660V AC E	=O	1
122418	Ex Rotary Switch 2 pole 16A/660V AC E	-O-	1
122430	Ex Rotary Switch interior 2 pole		2

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

Ceag Ex Control units and Switches

Type of protection: ATEX II 2GD EEx de IIC T6 zone 1, 2, 21 and 22 - IP66

Cat. no.	Description	Fig.
122460	Ceag Ex-Control station 1 pushbutton 1xNO/NC, gland M25	1
122464	Ceag Ex-Control station 2 pushbutton 2xNO/NC, gland M25	2
122468	Ceag Ex-Control station 1 mushroom-head pushbutton 1xNO/NC, gland M25	3
122472	Ceag Ex Rotating switch 0-1, 1x change-over contact, gland M25	4
122476	Ceag Ex Rotating switch 1-0-2, 2x NO contact, gland M25	4
122480	Ceag Ex Rocker switch 2-pole, 1x gland M25	5
122484	Ceag Ex Rocker switch 2-pole, 2x gland M25	5
122488	Ceag Ex Rocker switch "spring return" 2-pole, 1x gland M25	5

Ex Brass Junction box

Type of protection: ATEX II 2G Eex e II T6

Cat. no.	Description	Gland position
122500	Ex Junction box 2 pole max. 750V max. 32A	-O-
122506	Ex Junction box 2 pole max. 750V max. 32A	=O
122512	Ex Junction box 2 pole max. 750V max. 32A	-O=
122518	Ex Junction box 2 pole max. 750V max. 32A	=O=

122530	Ex Terminal block interior 2 pole

fig. 1

fig. 2

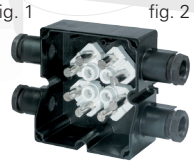


fig. 3

Ceag Ex Brass Junction box

Type of protection: ATEX II 2GD EEx e II T6 zone 1, 2, 21 and 22 - IP66

Cat. no.	Description	Fig.
122560	Ceag Ex-e Junction box 4 terminals, 2x gland M25	1
122562	Ceag Ex-e Junction box 4 terminals, 4x gland M25	2
122564	Ceag Ex-e Junction box 4 terminals, 4x gland M25 "straight"	3

Ex Flashing Beacons

Type of protection: ATEX II 2GD Ex d IIC T6 zone 1, 2, 21 and 22 - IP65

Cat. no.	Description
122606	Ex Flashing light 12-24V AC/DC, Yellow
122608	Ex Flashing light 12-24V AC/DC, Red
122610	Ex Flashing light 12-24V AC/DC, Green
122612	Ex Flashing light 12-24V AC/DC, Blue
122614	Ex Flashing light 12-24V AC/DC, Orange
122618	Ex Flashing light 115V AC, Yellow
122620	Ex Flashing light 115V AC, Red
122622	Ex Flashing light 115V AC, Green
122624	Ex Flashing light 115V AC, Blue
122626	Ex Flashing light 115V AC, Orange
122630	Ex Flashing light 230V AC, Yellow
122632	Ex Flashing light 230V AC, Red
122634	Ex Flashing light 230V AC, Green
122636	Ex Flashing light 230V AC, Blue
122638	Ex Flashing light 230V AC, Orange

Ex Rotating Beacons

Type of protection: ATEX II 2G EEx de IIC T6 zone 1, 2, 21 and 22 - IP66

Cat. no.	Description
122706	Ex Rotating Beacon 24V AC/DC, Orange
122708	Ex Rotating Beacon 24V AC/DC, Red
122718	Ex Rotating Beacon 110V AC, Orange
122720	Ex Rotating Beacon 110V AC, Red
122730	Ex Rotating Beacon 230V AC, Orange
122732	Ex Rotating Beacon 230V AC, Red

Ex Signalling Bells

Sound pressure level: approx. 90..105 dB(A)
Type of protection: ATEX II 2G EEx d IIB T5 - IP66

Cat. no.	Impa no.	Description
122806	793453	Ex Signalling Bell 24V DC
122808		Ex Signalling Bell 24V 50/60Hz
122812	793451	Ex Signalling Bell 110V 50/60Hz
122824		Ex Signalling Bell 230V 50/60Hz

Ex Signal Horn

Sound pressure level: approx. 108 dB(A)
Type of protection: ATEX II 2G Ex e mb II T5 - IP54

Cat. no.	Description
122848	Ex Signal Horn 24V DC
122866	Ex Signal Horn 115V 50/60Hz
122878	Ex Signal Horn 230V 50/60Hz

Ex Motor driven Siren

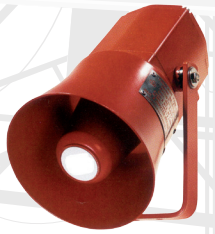
Sound pressure level: 114 dB(A)
Type of protection: ATEX II 2GD Ex d IIC T6 - IP65

Cat. no.	Description
122906	Ex Motor driven Siren 12V AC/DC
122912	Ex Motor driven Siren 24V AC/DC
122918	Ex Motor driven Siren 110V AC/DC
122924	Ex Motor driven Siren 230V AC/DC

Ex Buzzer/Claxon

Sound pressure level: 100 dB(A)
Type of protection: ATEX II 2GD Ex d IIC T6 - IP65

Cat. no.	Impa no.	Description
122968		Ex Buzzer/claxon 12-24V AC/DC
122972	793427	Ex Buzzer/claxon 115V 50/60Hz
122978	793428	Ex Buzzer/claxon 230V 50/60Hz



Ex Sounder

Fully programmable choice of any tone for any stage of request
Sound pressure level: approx. 110 dB(A) at 1 metre
Type of protection: ATEX II G Ex d IIC - IP66

Cat. no.	Description
122948	Ex Sounder 230V AC

fig. 1

fig. 2

Bright Star Flashlights

Cat. no.	Impa no.	Description	Type	Cells	Fig.
125106	792212	Heavy Duty industrial type	2618HD	2 x R20	1
125146	792216	Safety Approved type	2217	2 x R20	2
125158	792217	Safety Approved type	2224	3 x R20	2

fig. 3

fig. 4

fig. 5

Bright Star LED Flashlights

Cat. no.	Impa no.	Description	Type	Cells	Fig.
125108	792210	LED Industrial type	2618LED	2 x R20	3
125148	792235	LED Safety Approved type	2217LED	2 x R20	4
125160	792236	LED Safety Approved type	2224LED	3 x R20	5
125150	792237	LED Safety Approved type with ATEX, zone 0	2217LED ATEX	2 x R20	4
125162	792238	LED Safety Approved type with ATEX, zone 0	2224LED ATEX	3 x R20	5

fig. 6

fig. 7

Bright Star LED Flashlights

Cat. no.	Impa no.	Description	Type	Cells	Fig.
125196		LED Ion type	60200	3 x LR61*	6
125204	792229	LED Razor type with ATEX, zone 0	60102	3 x R6	7

*Including

fig. 8

fig. 9

Bright Star Spare parts

Cat. no.	Description	Type	Fig.
125474	Slip-in wand for type 2217, 2214 & 2618	SP-051	8
125478	Slip-on wand	SP-054	9

fig. 10

Bright Star Lantern

Cat. no.	Impa no.	Description	Type	Cells	Fig.
128806	792240	Safety Approved Lantern	2206	1 x 4R25	10

BRIGHT STAR LED LANTERNS

fig. 1

Bright Star LED Lanterns

Cat. no.	Impa no.	Description	Type	Cells	Fig.
128808	792241	Safety Approved LED Lantern	2206LED	4R25 or 4 x R20	1
128810		Safety Approved LED Lantern with ATEX	2206LED ATEX	4R25 or 4 x R20	1

FULTON FLASHLIGHTS

fig. 2

fig. 3

Fulton Flashlights

Cat. no.		Description	Type	Cells	Fig.
125726		Industrial with Magnet type	902N	2 x R20	2
125164		Safety Approved Right-angle type	N44	2 x R20	3

RESPONDER FLASHLIGHTS

fig. 4

fig. 5

Responder Flashlights

Cat. no.	Impa no.	Description	Type	Cells	Fig.
126142		Submersible PocketLight Orange with ATEX, zone 1	200301	2 x R6	4
126166	792219	Submersible Light Orange with ATEX, zone 1	200201	2 x R14	5

fig. 4

fig. 5

Responder Right Angle LED Flashlights

Cat. no.	Description	Type	Cells	Fig.
128924	Right Angle Flashlight	510304	6 x R6	4
128930	Rechargeable Handlantern Right Angle Flashlight	510241	Lithium-Ion*	5

*Including

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

Peli Flashlights

Cat. no.	Description	Type	Cells	Fig.
127012	MityLite Laser spot Xenon, zone 2	1900	2 x LR03*	1
127013	MityLite Laser spot Xenon, zone 1	1900Z1	2 x LR03*	2
127014	MityLite 2AA Laser spot Xenon	2300	2 x R6*	3
127016	MityLite Plus 2AA Laser spot Xenon	2340	2 x R6*	4
127018	PeliLite spot Xenon	1800	2 x R14	5
127024	Super SabreLite Lazer spot Xenon, Zone 2	2000	3 x R14	6
127028	Super SabreLite spot Xenon, Zone 1	2000Z1	3 x R14	7
127036	VersaBrite Six Lights in one Xenon	2250	2 x R6*	8
127048	StealthLite Laser spot Xenon	2400	4 x R6*	9
127050	StealthLite Laser spot Xenon	2400Z1	4 x R6	10

* including

fig. 8

fig. 9

fig. 10

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

Peli LED Flashlights

Cat. no.	Impa no.	Description	Type	Cells	Fig.
126988		LED L1	1930	4 x LR44*	1
126994		LED L1, zone 0	1930Z0	4 x LR44*	2
127030		Super Sabrelite Laser spot LED	2010	3 x R14	3
127032		Super Sabrelite Laser spot LED, zone 0	2010Z0	3 x R14	4
127040		MityLite Laser spot LED, zone 0	1965Z0	2 x LR03*	5
127052		StealthLite Laser spot LED	2410	4 x R6*	6
127054		StealthLite Laser spot LED, zone 0	2410Z0	4 x R6*	7
127064	792229	Highest Safety LED, zone 0	3315Z0	3 x R6*	8

* including

fig. 8

fig. 1

fig. 2

Peli Rechargeable Flashlights

Cat. no.	Description	Type	Cells	Fig.
127100	StealthLite Laser spot Xenon, Rechargeable	2450	4 x NiMh R6*	1
127118	Tactical Duty Xenon, Rechargeable	8050	4 x NiMh R14*	2

* including

fig. 3

fig. 4

fig. 5

Peli Rechargeable LED Flashlights

Cat. no.	Description	Type	Cells	Fig.
127104	StealthLite Laser spot LED, Rechargeable	2460	4 x NiMh R6*	3
127106	StealthLite Laser spot LED, Rechargeable, zone 1	2460Z1	4 x NiMh R6*	4
127114	Tactical Duty LED, Rechargeable	7060	Lithium-Ion*	5

* including

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

Pelican Head Lamps

Cat. no.	Description	Type	Cells	Fig.
127130	Heads Up Lite with 3 LEDs, zone 1	2610Z1	3 x LR03*	6
127132	Heads Up Lite with Xenon/3 LEDs, zone 2	2620	3 x LR03*	7
127134	Heads Up Lite with Halogen/3 LEDs, zone 2	2640	4 x R6*	8
127142	Heads Up Lite with LED, zone 0	2690Z0	3 x LR03*	9
127154	Heads Up Lite with LED, zone 0	2755Z0	3 x LR03*	10

* including

fig. 11

Peli LED Rechargeable Lantern

Cat. no.	Description	Type	Cells	Fig.
129020	Rechargeable LED Lantern	9410	4 x NiMh R20*	11

* including

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

Led Lenser Flashlights

Cat. no.	Description	Type	Cells	Fig.
127424	LED Flashlight - 95mm	P3	1 x LR03*	1
127428	LED Flashlight - 140mm	P4	2 x LR03*	2
127432	LED Flashlight - 115mm	P5.2	1 x R6*	3
127448	LED Flashlight - 167,7mm	P6	2 x R6*	4
127482	LED Flashlight - 136,5mm	T7	4 x R6*	5
127460	LED Flashlight - 315,5mm	P17	3 x R20*	6
127472	LED Flashlight - 395mm	X21.2	4 x R20*	7

* including

fig. 8

fig. 9

Led Lenser Flashlights

Cat. no.	Description	Type	Cells	Fig.
127440	Rechargeable LED Flashlight - 117,5mm	P5R.2	1 x Li-Ion R6*	8
127442	Rechargeable LED Flashlight - 160mm	M7R	Li-Ion Pack*	9

* including

fig. 10

fig. 11

Led Lenser Flashlights

Cat. no.	Description	Type	Cells	Fig.
127492	LED Head lamp - 60 lume	H3	3 x LR03*	10
127498	LED Head lamp - 250 lumen	H7.2	3 x LR03*	11

* including

MAG-LITE FLASHLIGHTS

fig. 1

fig. 2 fig. 3 fig. 4 fig. 5

fig. 6 fig. 7 fig. 8 fig. 9

Mag-lite Flashlights

Cat. no.	Description	Type	Cells	Fig.
127512	Solitaire Mag-lite Flashlight with Krypton Bulb	K3A012	1 x LR03*	1
127524	Mini Mag-lite Flashlight with Krypton Bulb	M3A012	2 x LR03*	2
127536	Mini Mag-lite Flashlight with Krypton Bulb	M2A012	2 x R6*	3
127548	Mag-lite Flashlight with Krypton Bulb	S2D010	2 x R20	4
127560	Mag-lite Flashlight with Krypton Bulb	S3D010	3 x R20	5
127564	Mag-lite Flashlight with Krypton Bulb	S4D010	3 x R20	6
127672	Mini Mag-lite Flashlight with LED	OM2ALED	2 x R6*	7
127690	Mag-lite Flashlight with LED	S2DLED	2 x R20	8
127692	Mag-lite Flashlight with LED	S3DLED	3 x R20	9

* including

fig. 10

Mag-lite Rechargeable Flashlights

Cat. no.	Description	Type	Cells	Fig.
127606	Mag-Charger Flashlight 110/230V AC - 12V DC	RX4019	Pack*	10
127706	LED Mag-Charger Flashlight 110/230V AC - 12V DC	RL4019	Pack*	

* including

fig. 11

fig. 12 fig. 13 fig. 14

fig. 15 fig. 16

Mag-lite Spare Parts

Cat. no.	Description	Type	Fig.
127610	Mag-lite Mag-Charger Charger Unit	ARXX185	11
127612	Battery pack 6V 2.2AH for Mag-charger	ARXX075	12
127618	Adaptor110/230V AC for Mag-charger	ARXX215	13
127620	Car plug 12V for Mag-charger	ARXX045	14
127910	Mag-lite Snap-in holder for D-Type	ASXD026	15
127924	Mag-lite Belt holder D-type	ASXD031	16

fig. 1

Streamlight LED Flashlight

Cat. no.	Description	Type	Cells	Fig.
127980	LED Eex Flashlight Propolymer with ATEX	RN	3 x LR1*	1

* including

fig. 2

fig. 3

fig. 4

Varta LED Flashlights

Cat. no.	Impa no.	Description	Cells	Fig.
129810		Mini Day Light LED Flashlight	1 x LR03*	2
129816	792281	Day Light LED Flashlight	2 x R6*	3
129838	792212	Day Light LED Flashlight	2 x R20*	4
129820	792282	Trilogy LED Flashlight	3 x LR03*	5
129826		Premium LED Flashlight	3 x LR03*	6
129842		Indestructible LED Flashlight	3 x LR03*	7
129844		Indestructible LED Flashlight	2 x R6*	8
129846		Indestructible LED Flashlight	3 x R14*	9
129852		XS Camping LED Lantern	4 x R6	10

* including

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

Varta LED Hand Lanterns

Cat. no.	Impa no.	Description	Cells	Fig.
129874	792284	Indestructible LED Hand Lantern	4 x R14*	11
129896		Rechargeable LED Hand Lantern, with adaptor 230V	Pack*	12

* including

fig. 11

fig. 12

fig. 13

fig. 14

fig. 15

fig. 16

Acculux Flashlights and Hand Lantern

Cat. no.	Impa no.	Description	Type	Fig.
128174	792247	Rechargeable flashlight with LED, 110/230V	Joker LED	13
128178		Rechargeable flashlight with LED, 110/230V	Multi LED	14
128176	792248	Rechargeable flashlight with Halogen, 110/230V	Novolux	15
128180		Rechargeable Hand Lantern Halogen, 10/230V	Unilux 5	16

fig. 1

Ansmann LED Rechargeable Flashlights

Cat. no.	Description	Type	Cells	Fig.
128182	LED Flashlight Rechargeable, 230V AC and 12-24V DC	AS5816542	Pack*	1

* including

fig. 2

fig. 3

fig. 4

Flashlight

Cat. no.	Description	Cells	Fig.
128024	Pencil type, 2-cells AAA including	2 x LR03*	2
128036	Flashlight Halogen type, 2-cells D	2 x R20	3
128054	Flashlight rubber grip with krypton lamp, for 2-cells D	2 x R20	4
128060	Rubber Flashlight with krypton lamp, 3-cells D	3 x R20	4
128072	Flashlight with magnet, 2-cells D	2 x R20	5
128108	Metal, for 4,5V Flat Battery	1 x 4R12	6
128114	Disposable for 4,5V Flat Battery	1 x 4R12*	7

* including

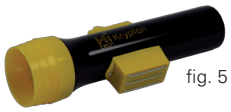


fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

LED Flashlights

Cat. no.	Impa no.	Description	Cells	Fig.
128028	792282	LED Flashlight	3 x LR03*	8
128032	792281	LED Flashlight	2x R6	9
128084	792283	LED Flashlight	2x R20	10

* including

FLASHLIGHTS

fig. 1

LED Head Lamp

Cat. no.	Description	Cells	Fig.
128142	LED Head lamp	3 x LR03	1

fig. 2

fig. 3

fig. 4

Hand Lanterns

Cat. no.	Impa no.	Description	Cells	Fig.
128506	792202	Handlamp with Krypton lamp, 4-cells D or 6V veer	4R25 or 4 x R20	2
128530	792204	Handlamp Amper lite, 6-cell D	6 x R20	3
128510	792284	LED Handlamp for 4-cells D	4 x R20	4

fig. 5

fig. 6

fig. 7

Rechargeable Hand Lanterns

Cat. no.	Impa no.	Description	Cells	Fig.
128618		Rechargeable with Halogen Bulb, 12/24V DC and 110/220V AC	Pack 4R25*	5
128636		Rechargeable Spotlight 3.000.000 CP, 12V DC and 240V AC	Lead Batt.*	6
128608	792245	LED Rechargeable Lantern 110/220V	Pack 4R25*	7

* including

CEAG FLASHLIGHTS AND HANDLAMPS

fig. 8

fig. 9

Ceag Explosion Proof Flashlights

Type of protection: ATEX II 2 G Ex e ib IIC T4

Cat. no.	Description	Type	Cells	Fig.
129106	Ex Mini Stabex Flashlight with ATEX	Mini II	2 x R6	8
129112	EX HF Stabex Flashlight with ATEX	HF	2 x R20	9

fig. 10

Ceag Explosion Proof Rechargeable Hand Lantern

Type of protection: ATEX II 2 G Ex e ib IIC T4 Gb

Cat. no.	Description	Type	Cells	Fig.
129490	Rechargeable Hand Lantern with Plug-in charger 100-240V AC	HE-9-Basic	Li-Ion Pack*	10

* including

WOLF SAFETY FLASHLIGHTS

fig. 1

fig. 2

fig. 3

fig. 4

Wolf Safety Micro and Mini Torc

Cat. no.	Impa no.	Description	Type	Cells	Fig.
129152	792276	Micro LED Torch, zone 0 with ATEX	M-10	4 x LR44*	1
129154	792277	Mini Xenon Torch, zone 1 with ATEX	M-20	2 x LR03*	2
129156	792278	Mini LED Torch, zone 0 with ATEX	M-40	3 x LR1*	3
129158	792279	Mini LED Torch, zone 0 with ATEX	M-60	3 x LR1*	4
129159	792280	Mini LED Torch, zone 1, 2 with ATEX	M-80	4 x LR6*	5

* including

fig. 5

fig. 6

Wolf Safety Torch

Type of protection: ATEX II 2 GD Ex e ib IIC T6 / II 2 GD Ex e ib IIC T4

Cat. no.	Impa no.	Description	Type	Cells	Fig.
129160	792261	Straight Torch Body, Vacuum Bulb, zone 1	TS-26A	2 x R20	5
129166	792262	R/Angle Torch Body, Vacuum Bulb, zone 1	TR-26A	2 x R20	6
129168	792263	Straight Torch Body, Xenon Bulb, zone 1	TS-24A	2 x R20	5
129170	792264	R/Angle Torch Body, Xenon Bulb, zone 1	TR-24A	2 x R20	6

Wolf Safety LED Torch

Type of protection: ATEX II 2 GD Ex e ib IIC T4

Cat. no.	Description	Type	Cells	Fig.
129188	LED Straight Torch Body, zone 1	TS-30+	2 x R20	5
129190	LED R/Angle Torch Body, zone 1	TR-30+	2 x R20	6

fig. 1

fig. 2

Wolf Safety LED Torch

Type of protection: ATEX II 2 GD Ex ib IIC T4/T3 / II 1 G Ex ia IIC T4/T3

Cat. no.	Impa no.	Description	Type	Cells	Fif.
129182	792286	LED R/Angle Yellow Torch Body, zone 1	TR-40	4 x R6	1
129184	792287	LED R/Angle Yellow Torch Body (low batt. ind.), zone 1	TR-40+	4 x R6	1
129186	792288	LED R/Angle Black Torch Body, zone 0	TR-45	4 x R6	2

fig. 3

fig. 4

Wolf Safety LED Headtorch

Type of protection: ATEX II 2 G Ex ib IIC T4 / II 2 G Ex ib IIC T4/T3

Cat. no.	Impa no.	Description	Type	Cells	Fig.
129138		LED Headtorch, zone 1	HT-400	3 x LR03	3
129140	330619	LED Headtorch, zone 0	HT-600	3 x R6	4

fig. 5

fig. 6

Wolf Safety Rechargeable Torch

Type of protection: ATEX II 2GD Ex e ib IIC T4 / II 2GD Ex ib IIC T4 / II 1G Ex ia IIC T4

Cat. no.	Impa no.	Description	Type	Fig.
129196	792266	Rechargeable R/Angle Halogen Torch with charger 110-254V AC, zone 1	R-30	5
129198	792267	Rechargeable R/Angle LED Torch with charger 110-254V AC, zone 1	R-50	5
129100	792268	Rechargeable R/Angle LED Torch with charger 110-254V AC, zone 0	R-55	5
129201	792271	Wolflite Holder/Charger 100-254V AC, for Torch R-30, R-50 & R-55	RC-200H	6

WOLF SAFETY HANDLAMPS

fig. 1

fig. 2

Wolf Safety Handlamps with ATEX

Type of protection: ATEX II 2GD EEx e ib IIC T4

Cat. no.	Impa no.	Description	Type	Cells	Fig.
129308	330607	Handlamp with shoulder strap, zone 1	H-4DCA	4 x R20	1
129320	330608	Rechargeable Handlamp with shoulder strap, zone 1	H-251A	Batt. H-66*	2
129324		Rechargeable LED Handlamp with shoulder strap, zone 1	H-251ALED	Batt. H-66*	2

fig. 3

fig. 4

Wolf Safety Handlamps

Type of protection: EEx e ib IIB T4 / EEx e s II T3

Cat. no.		Description	Type	Cells	Fig.
129306		Handlamp with shoulder strap, zone 1	H-4DC	4 x R20	3
129318		Rechargeable Handlamp with shoulder strap, zone 1	H-251Mk2	Batt. H-66*	4

* including

fig. 5

Wolf Safety Charger

Cat. no.	Impa no.	Description	Type	Fig.
129330	330610	Charger 110/220V 50/60Hz for H-251A/Mk2, Bench or Wall mounting	C-251HVE	5

fig. 6

Wolf Safety Handlamps with ATEX

Type of protection: ATEX II 2G Ex ib IIC T4 Gb

Cat. no.	Impa no.	Description	Type	Cells	Fig.
129418	330612	Rechargeable LED Handlamp with shoulder strap, zone 1	XT-50	Lithium-Ion*	6
129420	330613	Rechargeable LED Handlamp with shoulder strap, zone 1	XT-70	Batt. H-66*	6
129436		Charger XT-200H, 90....254V AC for XT series	XT-200H		

* including

WOLF SAFETY SPARE PARTS

Wolf Safety Spare Parts		
Cat. no.	**Description**	**Type**
129348	Wolflite Rechargeable Battery H-16E 4V 5Ah for H-251 Mk1 & Mk	H-16E
129350	Wolflite Rechargeable Battery H-66 4V 5Ah for H-251 A-TEX	H-66
129354	Switch for Wolflite handlamp	H-03
129360	Lock screw for Wolflite handlamp MK2	H-08
129366	Reed switch for Wolflite handlamp	H-09
129372	Fuse for Wolflite handlamp MK2 + charger	H-10
129378	Fuse contact for Wolflite handlamp	H-12
129384	Battery contact for Wolflite handlamp	H-13
129388	Rubber washer for glass disc for Wolflite handlamp	H-18
129390	Glass disc for Wolflite handlamp	H-19
129392	Reflector retaining ring for Wolflite handlamp	H-22
129394	Battery retainer for Wolflite handlamp	H-23
129396	Reflector with lamp for Wolflite handlamp MK2	H-30A

PETZL HEAD LAMP

Petzl Head Lamp			
Cat. no.	**Description**	**Type**	**Cells**
127312	Safety LED Head lamp Duo Atex, zone 1	Duo ATEX	Pack*

* including

Mica Ex Proof Rechargeable LED Hand Lantern

Type of protection: ATEX II 1G Ex ia IIC T4 / ATEX II 2G Ex ib IIC T4

Cat. no.	Impa no.	Description	Type	Cells
129606		Rechargeable LED Handlamp, zone 0	IL-800 zone0	NiMh Batt.*
129608		Rechargeable LED Handlamp with em light mode, zone 0	IL-800em zone0	NiMh Batt.*
129610	330655	Rechargeable LED Handlamp, zone 0	IL-800 zone1	NiMh Batt.*
129612	330656	Rechargeable LED Handlamp with em light mode, zone 1	IL-800em zone1	NiMh Batt.*
129618	330657	Charger for Handlamp IL-60/80/800 & HL-150, 85...264V AC	IL-C4-VAC	
129624	330658	Charger for 3 Handlamps IL-60/80/800 & HL-150, 100...240V AC	CR-C3	
129628	330659	Charger for 5 Handlamps IL-60/80/800 & HL-150, 100...240V AC	CR-C5	

* including

Mica Ex Proof Rechargeable LED Hand Lantern

Type of protection: ATEX II 2G Ex ib IIC T4

Cat. no.	Impa no.	Description	Type	Cells
129646	330661	Mica Rechargeable LED 1W Safety Handlamp ATEX	ML-808	NiMh Batt.*
129652	330662	Mica Rechargeable LED 1W Safety Handlamp ATEX, with emergency lighting	ML-808em	NiMh Batt.*
129658	330663	Charger for Handlamp ML-600 & ML-800/808, 90...265V AC	MLC & IL-2	
129664	330664	Charger for 6 Handlamps ML-600 & ML-800/808, 100...240V AC	CR-13 & 6xMLC	

* including

Lead acid batteries

Cat. no.	Impa no.	Volts	Ah	Dimentions L x W x H /Th mm	Code
130524		12	18	183 x 126 x 168/168 mm	51814
130530	792522	12	28	187 x 127 x 162/162 mm	52805
130536	792524	12	35	187 x 127 x 200/220 mm	53520
130560	792532	12	44	208 x 175 x 190/190 mm	54459
130566	792515	12	62	243 x 175 x 190/190 mm	56219
130596	792538	12	74	278 x 175 x 190/190 mm	57412
130650	792540	12	100	348 x 175 x 190/190 mm	60038
130662	792542	12	120	513 x 189 x 203/223 mm	62034
130668	792544	12	140	513 x 189 x 203/223 mm	64020
130674	792545	12	165	513 x 223 x 195/220 mm	66514
130680	792590	12	180	513 x 223 x 195/220 mm	68022
130686	792591	12	200	513 x 277 x 214/245 mm	70027
130692		12	230	513 x 277 x 214/245 mm	73011

Maintenance-free Lead-acid batteries

Cat. no.	Impa no.	Volts	Ah	Dimentions L x W x H /Th mm	Code
130812	792551	12	28	195 x 127 x 160/186 mm	52805
130818	792552	12	35	187 x 127 x 200/220 mm	53522
130824		12	44	210 x 174 x 175/175 mm	54465
130830	792554	12	55	242 x 174 x 175/175 mm	55426
130834	792555	12	60	266 x 175 x 200/225 mm	56049
130838	792556	12	70	266 x 175 x 200/225 mm	57024
130842		12	74	277 x 174 x 175/175 mm	57412
130846		12	100	302 x 175 x 200/220 mm	60033
130848	792557	12	100	354 x 174 x 190/190 mm	60038
130854		12	102	330 x 172 x 218/242 mm	60800
130860	792558	12	120	509 x 212 x 210/234 mm	62034
130866	792559	12	140	509 x 212 x 210/234 mm	64020
130872		12	165	509 x 212 x 210/234 mm	66514
130874	792560	12	180	509 x 212 x 210/234 mm	68034
130878		12	200	509 x 274 x 218/240 mm	70027
130882		12	225	513 x 275 x 220/240 mm	72511

Maintenance-free Sealed Lead-acid Batteries

Cat. no.		Volts	Ah	Dimentions L x W x H /Th mm	Code
131012		6	3,2	134 x 34 x 60/66 mm	UL3,2-6
131016		6	4	70 x 47 x 103/109 mm	UL4-6
131024		6	10	151 x 50 x 94/100 mm	UL10-6
131112		12	1,3	98 x 48 x 51/57 mm	UL1,3-12
131124		12	2,4	178 x 34 x 60/66 mm	UL2,4-12
131130		12	3,4	134 x 67 x 60/66 mm	UL3,4-12
131136		12	4	195 x 47 x 70/78 mm	UL4-12
131142		12	5	90 x 70 x 102/110 mm	UL5-12
131154		12	7	151 x 65 x 94/100 mm	UL7-12
131156		12	9	151 x 65 x 94/100 mm	UL9-12
131162		12	12	151 x 98 x 98/104 mm	UL12-12
131168		12	18	181 x 76 x 169/169 mm	UL18-12
131178		12	26	166 x 175 x 125/125 mm	UL26-12
131190		12	40	197 x 165 x 170/170 mm	UL40-12
131196		12	65	355 x 161 x 179/179 mm	UL65-12

Marine Lead-acid Batteries

Cat. no.	Impa no.	Volts	Ah	Dimentions L x W x H /Th mm	Code
131356		2	200	82 x 198 x 335/365 mm	SS200-2
131362	792632	2	300	101 x 198 x 335/365 mm	SS300-2
131368	792631	2	400	118 x 50 x 335/365 mm	SS400-2
131318	792633	4	200	164 x 198 x 335/365 mm	SS200-4

Maintenance-free Marine Lead-acid Batteries

Cat. no.		Volts	Ah	Dimentions L x W x H /Th mm	Code
131380		2	200	111 x 173 x 330/342 mm	SC200
131384		2	300	151 x 173 x 330/342 mm	SC300

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

Connectors for Batteries

Cat. no.	Impa no.	Description	Fig.
131606		Barrel (+) with bolt for round poles	1
131612		Barrel (-) with bolt for round poles	1
131624		Barrel (+) for two cables, with bolt for round poles	2
131630		Barrel (-) for two cables, with bolt for round poles	2
131654	794883	Insulated Battery clips 40 Amp length 80mm Red	3
131660	794883	Insulated Battery clips 40 Amp length 80mm Black	3
131672		Insulated Battery clips 60 Amp length 140mm Red	3
131678		Insulated Battery clips 60 Amp length 140mm Black	3
131690		Insulated Battery clips 400 Amp length 195mm Red	4
131696		Insulated Battery clips 400 Amp length 195mm Black	4
131708		Cable set for starting 2.5 mtr	5

fig. 6

fig. 7

Chargers for Batteries

		Input		Output		
Cat. no.	Impa no.	Voltage	Hz	Voltage	Amps	Fig.
131812		42	50/60	12	5	6
131814		42	50/60	2 x 12	2 x 5	6
131818		230	50/60	12	5	6
131824	792653	110	50/60	12/24	20	8
131850	792652	220	50/60	12	9	7
131856	792652	220	50/60	12/24	12	8
131868	792654	220	50/60	12/24	30	9

fig. 8

fig. 9

fig. 10

fig. 11

fig. 12

Accessories for Batteries

Cat. no.	Inpa no.	Description	Fig.
131912	792662	Hydrometer for lead-acid batteries	10
131916		PVC Hydrometer for lead-acid batteries	11
131918		Hydrometer for alkaline batteries	10
131924	792666	Battery Syringe with rubber bulb	12
131936		Automatic battery filler	13
131948	550276	Vaseline, bucket of 1 kgs	14
131960		Battery cell tester 20/100/200Amp	15
131966		Anti-freeze tester	16

fig. 13

fig. 14

fig. 16

fig. 15

fig. 1

fig. 2

fig. 3

Liquids for Batteries			
Cat. no.	***Impa no.***	***Description***	***Fig.***
131972	550688	Demineralized water, can of 5 ltr	1
131984	550978	Sulphuric acid gravity 1.28, can of 1 ltr	2
131996	792596	Electrolyte for alkaline batteries gravity 1.20, can of 10 ltr	3

fig. 1 fig. 2 fig. 3 fig. 4 fig. 5

Hi-Watt Standard batteries

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	Type	Fig.
132312	792410	1,5	R03	ø 10,5 x 44,5 mm	R03M	1
132318	792403	1,5	R6	ø 14,5 x 50,5 mm	R6M	2
132324	792402	1,5	R14	ø 26 x 50 mm	R14M	3
132330	792401	1,5	R20	ø 34,2 x 61,5 mm	R20M	4
132360	792405	9	6F22	26,5 x 17,5 x 48,5 mm	6F22M	5

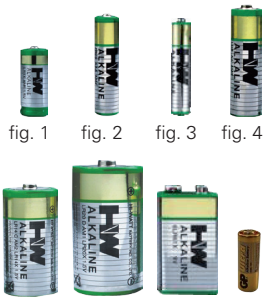


fig. 1 fig. 2 fig. 3 fig. 4

fig. 5 fig. 6 fig. 7 fig. 8

Hi-Watt Alkaline batteries

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	Type	Fig.
133006	792404	1,5	LR1	ø 12 x 30,2 mm	LR1	1
133012	792424	1,5	LR03	ø 10,5 x 44,5 mm	LR03	2
133016		1,5	LR61	ø 8,3 x 42,5 mm	LR61	3
133018	792423	1,5	LR6	ø 14,5 x 50,5 mm	LR6	4
133024	792422	1,5	LR14	ø 26 x 50 mm	LR14	5
133030	792421	1,5	LR20	ø 34,2 x 61,5 mm	LR20	6
133060	792426	9	6LR61	26,5 x 17,5 x 48,5 mm	6LR61	7
133066		12		ø 10 x 28,5 mm	23A	8

fig. 1 fig. 2 fig. 3 fig. 4 fig. 5

Varta Alkaline batteries

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	Type	Fig.
133212	792424	1,5	LR03	ø 10,5 x 44,5 mm	4003	1
133218	792423	1,5	LR6	ø 14,5 x 50,5 mm	4006	2
133224	792422	1,5	LR14	ø 26 x 50 mm	4014	3
133230	792421	1,5	LR20	ø 34,2 x 61,5 mm	4020	4
133260	792426	9	6LR61	ø 26,5 x 17,5 x 48,5 mm	4022	5

fig. 1 fig. 2 fig. 3 fig. 4

fig. 5 fig. 6 fig. 7

Duracell Alkaline batteries, type Industrial/Procell

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	Type	Fig.
133606	792425	1,5		ø 12 x 30,2 mm	MN 9100	1
133612	792424	1,5	LR03	ø 10,5 x 44,5 mm	ID2400	2
133618	792423	1,5	LR6	ø 14,5 x 50,5 mm	ID1500	3
133624	792422	1,5	LR14	ø 26 x 50 mm	ID1400	4
133630	792421	1,5	LR20	ø 34,2 x 61,5 mm	ID1300	5
133636		4,5	3LR12	62 x 22 x 67 mm	PC 1203	6
133642		6	4LR61	ø 48 x 9 x 35 mm	SIZE J - 7k67	
133648	792435	6	4R25	67 x 67 x 108 mm	PC 908	7

continue on next page

fig. 1

fig. 2

fig. 3

Duracell Alkaline batteries, type Industrial/Procell

continuation

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	Type	Fig.
133654		6	4R25S	67 x 67 x 105 mm	PC 915	1
133660	792426	9	6LR61	26,5 x 17,5 x 48,5 mm	ID1604	2
133666		12		ø 10 x 28,5 mm	MN 21	3

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

Duracell Alkaline batteries, type Plus Power

Cat. no.	Voltage	I.E.C. code	Dimensions	Type	Blister	Fig.
138702	1,5	LR03	ø 10,5 x 44,5 mm	MN 2500	4 pc	1
138712	1,5	LR6	ø 14,5 x 50,5 mm	MN 1500	4 pc	2
138722	1,5	LR14	ø 26 x 50 mm	MN 1400	2 pc	3
138732	1,5	LR20	ø 34,2 x 61,5 mm	MN 1300	2 pc	4
138742	4,5	3LR12	62 x 22 x 67 mm	MN 1203	1 pc	5
138746	9	6LR61	62 x 22 x 67 mm	MN 1604	1 pc	6

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

Duracell Alkaline batteries, type Ultra Power

Cat. no.	Voltage	I.E.C. code	Dimensions	Type	Blister	Fig.
138802	1,5	LR03	ø 10,5 x 44,5 mm	MX 2400	4 pc	1
138812	1,5	LR6	ø 14,5 x 50,5 mm	MX 1500	4 pc	2
138822	1,5	LR14	ø 26 x 50 mm	MX 1400	2 pc	3
138832	1,5	LR20	ø 34,2 x 61,5 mm	MX 1300	2 pc	4
138846	9	6LR61	62 x 22 x 67 mm	MX 1604	1 pc	5

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

Batteries for general use

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	Type	Fig.
134048	792435	6	4R25	67 x 67 x108 mm	Spring	1
134054		6	4R25S	67 x 67 x 105 mm	Screw	2
134066		6	4R25-2	135 x 72 x 125 mm	Screw	3
134084	792441	9	6F90	46 x 46 x 62 mm	PP7	
134090	792442	9	6F100	66 x 52 x 81 mm	PP9	4
134096		9	6R25	101 x 67 x 106 mm	Fanal	5
134108		12		135 x 71 x 72 mm	Bright Star 125	

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

fig. 11

fig. 12

fig. 13

fig. 14

fig. 15

fig. 16

fig. 17

fig. 18

fig. 19

fig. 20

Button cells

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	J.I.S. code	Duracell code	Fig.
134506		1,55	SR63	ø 5,8 x 2,15 mm	--	D379	1
134512		1,55	SR65	ø 6,8 x 1,65 mm	--	D321	2
134518		1,55	SR60	ø 6,8 x 2,15 mm	SG1	D364	3
134524		1,55	SR66	ø 6,8 x 2,60 mm	--	D377	4
134530		1,55	SR58	ø 7,9 x 2,10 mm	SG11	D362	5
134536		1,55	SR59	ø 7,9 x 2,60 mm	SG2	D397	6
134542		1,55	SR731	ø 7,9 x 3,10 mm	--	D329	7
134548	792428	1,55	SR41	ø 7,9 x 3,60 mm	SG3	D384	8
134554	792430	1,55	SR48	ø 7,9 x 5,40 mm	SG5	D393	9
134560		1,55	SR68	ø 9,5 x 1,65 mm	--	D373	10
134566		1,55	SR69	ø 9,5 x 2,10 mm	SG6	D370	11
134572		1,55	SR57	ø 9,5 x 2,70 mm	SG7	D395	12
134578		1,55	SR45	ø 9,5 x 3,60 mm	--	D394	13
134584	792431	1,55	SR55	ø 11,6 x 2,10 mm	SG8	D391	14
134590	792432	1,55	SR54	ø 11,6 x 3,00 mm	SG10	D389	15
134596		1,55	SR42	ø 11,6 x 3,60 mm	--	D350	16
134602	792429	1,55	SR43	ø 11,6 x 4,20 mm	SG12	D386	17
134608	792411	1,55	SR44	ø 11,6 x 5,40 mm	SG13	D357	18
134620		1,35	PR44	ø 11,6 x 5,35 mm	--	675	19
134632	792407	1,5	LR9	ø 15,5 x 6,10 mm	--	625	20

Varta Button cells

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	J.I.S. code	Varta code
133402		1,55	SR63	ø 5,8 x 2,15 mm	--	V379
133395		1,55	SR60	ø 6,8 x 2,15 mm	SG1	V364
133396		1,55	SR59	ø 6,8 x 2,6 mm	SG2	V377
133397	792428	1,55	SR41	ø 7,9 x 3,6 mm	SG3	V392
133398	792433	1,55	SR57	ø 9,5 x 2,7 mm	SG7	V395
133399	792432	1,55	SR54	ø 11,6 x 3,00 mm	SG10	V10GA
133400	792438	1,5	LR44	ø 11,6 x 5,4 mm		V13GA
133401	792411	1,55	SR44	ø 11,6 x 5,4 mm		V13GS
133406		1,55	LR9	ø 15,5 x 6,1 mm		V625U

BUTTON CELL BATTERIES

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

fig. 11

fig. 12

fig. 13

Lithium Button cells

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	Duracell code	Fig.
134802	792415	3	CR1216	ø 12,5 x 1,60 mm	DL1216	1
134806	792412	3	CR1220	ø 12,5 x 2,00 mm	DL1220	2
134808		3	CR1225	ø 12,5 x 2,50 mm	DL1225	3
134812	792416	3	CR1616	ø 16,0 x 1,60 mm	DL1616	4
134818	792417	3	CR1620	ø 16,0 x 2,00 mm	DL1620	5
134822		3	CR2012	ø 20,0 x 1,20 mm	DL2012	6
134824	792419	3	CR2016	ø 20,0 x 1,60 mm	DL2016	7
134830	792420	3	CR2025	ø 20,0 x 2,50 mm	DL2025	8
134836	792413	3	CR2032	ø 20,0 x 3,20 mm	DL2032	9
134841	792427	3	CR2320	ø 23,0 x 2,00 mm	DL2320	10
134842		3	CR2325	ø 23,0 x 2,50 mm	DL2325	11
134848		3	CR2430	ø 24,0 x 3,00 mm	DL2430	12
134854		3	CR2450	ø 24,5 x 5,00 mm	DL2450	13

Varta Lithium Button cells

Cat. no.	Impa no.	Voltage	I.E.C. code	Dimensions	Varta code
133373		3	CR1220	ø 12,5 x 2,00 mm	6220
133374	792412	3	CR1225	ø 12,5 x 2,50 mm	6225
133377	792416	3	CR1616	ø 16,0 x 1,60 mm	6616
133378	792417	3	CR1620	ø 16,0 x 2,00 mm	6620
133379		3	CR2032	ø 16,0 x 3,20 mm	6632
133382	792419	3	CR2016	ø 20,0 x 1,60 mm	6016
133386	792420	3	CR2025	ø 20,0 x 2,50 mm	6025
133390	792413	3	CR2032	ø 20,0 x 3,20 mm	6032
133393		3	CR2430	ø 24,0 x 3,00 mm	6430
133394		3	CR2450	ø 24,5 x 5,00 mm	6450

Lithium batteries			
Cat. no.	**Voltage**	**Type**	**Dimensions**
134902	3,6	Penlight 1/2-AA	ø 14,5 x 24,9 mm
134904	3,6	Penlight 2/3-AA	ø 14,5 x 32,5 mm
134906	3,6	Penlight SL-760 / AA	ø 14,5 x 50,5 mm
134912	3,6	Baby-cell SL-770 / C	ø 26,0 x 50,0 mm
134918	3,6	Mono-cell SL780 / D	ø 34,0 x 61,0 mm

Lithium Photo batteries			
Cat. no.	**Voltage**	**Type**	**Dimensions**
135012	3	CR2	ø 15,6 x 27 mm
135018	3	CR-123A	ø 17,1 x 34,5 mm
135024	6	CR-P2P	36 x 34 x 19,5 mm
135030	6	2-CR5M	45 x 34 x 17 mm

Varta Lithium Photo batteries			
Cat. no.	**Voltage**	**Type**	**Dimensions**
133194	3	CR2	ø 15,6 x 27,0 mm
133198	3	CR-123A	ø 17,1 x 34,5 mm

NICKEL-CADMIUM AND NICKAL-METAL HYDRIDE BATTERIES

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

Rechargeable Nickel-metal Hydride batteries

Cat. no.	Impa no.	Voltage	mAh	Type	Dimensions	Fig.
135212		1,2	700	HR03 - 700	ø 10,5 x 44,5 mm	1
135216	792453	1,2	1200	HR6 - 1200	ø 14,5 x 50,5 mm	2
135218		1,2	2000	HR6 - 2000	ø 14,5 x 50,5 mm	3
135220		1,2	2700	HR6 - 2700	ø 14,5 x 50,5 mm	4
135224	792452	1,2	4000	HR14 - 4000	ø 26,0 x 50 mm	5
135230	792451	1,2	5000	HR20 - 5000	ø 34,2 x 61,5 mm	6
135234		1,2	10000	HR20 - 10000	ø 34,2 x 61,5 mm	7
135260	792447	8,4	150	H6F22 - 150	26,5 x 17,5 x 48,5 mm	8

Varta Rechargeable Nickel-metal Hydride batteries

Cat. no.	Impa no.	Voltage	mAh	Type	Blister	Dimensions
135924		1,2	800	HR03 - 800	4 pc	ø 10,5 x 44,5 mm
135936	792456	1,2	2100	HR6 - 2100	4 pc	ø 14,5 x 50,5 mm
135942	792455	1,2	3000	HR14 - 3000	2 pc	ø 26 x 50 mm
135948	792454	1,2	3000	HR20 - 3000	2 pc	ø 34,2 x 61,5 mm
135954	792457	9	200	H6F22 - 200	1 pc	26,5 x 17,5 x 48,5 mm

Duracel Rechargeable Nickel-metal Hydride batteries

Cat. no.	Impa no.	Voltage	mAh	Type	Blister	Dimensions
135824		1,2	800	HR03 - 800	4 pc	ø 10,5 x 44,5 mm
135836	792456	1,2	2000	HR6 - 2000	4 pc	ø 14,5 x 50,5 mm

Rechargeable Nickel-cadmium batterie

Cat. no.	Voltage	mAh	Type	Dimensions
135148	4,8	1400	4R25 / 996 with Spring	60 x 60 x 96 mm
Complete with charging leads 8-30V AC/DC and 120V-240V AC				

Charger for Nickel-metal Hydride batteries

Cat. no.	Impa no.	Input Voltage	Description
135512	792471	110/220	Universal charger for 4x AAA / AA / C / D or 1x 6F22
135524	792472	220	Universal charger for 4x AAA / AA / C / D or 1x 6F22
135542	792472	220	Universal charger for 4x AAA / AA / C / D or 1x 6F22 with discharge function

Varta Charger for Nickel-metal Hydride batteries

Cat. no.	Impa no.	Input Voltage	Description
135712		230V	Pocket charger for 4x AAA / AA Complete with 2x AAA (800mAh) and 4x AA (2100mAh)
135724	792471	100-240	Universal charger for 4x AAA / AA / C / D or 1x 6F22

Battery holder

Cat. no.	Description
135572	Battery holder for 4x R20 batteries, with spring

VMDS - Insulated flexible switchboard cable

Conductor: Flexible electrolytic copper
Insulation: Vinyl - PVC
Rated Voltage: 300/500V
Test Voltage: 2000V

Cat. no.	Impa no.	Number of conductors x mm²	Colour	Outside dia mm
140106	794211	1 x 0,50 mm²	Black	2,2
140112		1 x 0,50 mm²	Blue	2,2
140118		1 x 0,50 mm²	Brown	2,2
140124		1 x 0,50 mm²	Green	2,2
140130		1 x 0,50 mm²	Grey	2,2
140136		1 x 0,50 mm²	Red	2,2
140142		1 x 0,50 mm²	Violet	2,2
140148		1 x 0,50 mm²	White	2,2
140154		1 x 0,50 mm²	Yellow	2,2
140160		1 x 0,50 mm²	Yell/Green	2,2
140206	794151	1 x 0,75 mm²	Black	2,3
140212		1 x 0,75 mm²	Blue	2,3
140218		1 x 0,75 mm²	Brown	2,3
140224		1 x 0,75 mm²	Green	2,3
140230		1 x 0,75 mm²	Grey	2,3
140236		1 x 0,75 mm²	Red	2,3
140242		1 x 0,75 mm²	Violet	2,3
140248		1 x 0,75 mm²	White	2,3
140254		1 x 0,75 mm²	Yellow	2,3
140260		1 x 0,75 mm²	Yell/Green	2,3
140306		1 x 1,00 mm²	Black	2,5
140312		1 x 1,00 mm²	Blue	2,5
140318		1 x 1,00 mm²	Brown	2,5
140324		1 x 1,00 mm²	Green	2,5
140330		1 x 1,00 mm²	Grey	2,5
140336		1 x 1,00 mm²	Red	2,5
140342		1 x 1,00 mm²	Violet	2,5
140348		1 x 1,00 mm²	White	2,5
140354		1 x 1,00 mm²	Yellow	2,5
140360		1 x 1,00 mm²	Yell/Green	2,5

VMDS - Insulated flexible switchboard cable

Conductor: Flexible electrolytic copper
Insulation: Vinyl - PVC
Rated Voltage: 450/750V
Test Voltage: 2500V

Cat. no.	Impa no.	Number of conductors x mm²	Colour	Outside dia mm
140406	794152	1 x 1,50 mm²	Black	3,0
140412		1 x 1,50 mm²	Blue	3,0
140418		1 x 1,50 mm²	Brown	3,0
140424		1 x 1,50 mm²	Green	3,0
140430		1 x 1,50 mm²	Grey	3,0
140436		1 x 1,50 mm²	Red	3,0
140442		1 x 1,50 mm²	Violet	3,0
140448		1 x 1,50 mm²	White	3,0
140454		1 x 1,50 mm²	Yellow	3,0
140460		1 x 1,50 mm²	Yell/Green	3,0
140506	794153	1 x 2,50 mm²	Black	3,6
140512		1 x 2,50 mm²	Blue	3,6
140518		1 x 2,50 mm²	Brown	3,6
140524		1 x 2,50 mm²	Green	3,6
140530		1 x 2,50 mm²	Grey	3,6
140536		1 x 2,50 mm²	Red	3,6
140548		1 x 2,50 mm²	White	3,6
140554		1 x 2,50 mm²	Yellow	3,6
140560		1 x 2,50 mm²	Yell/Green	3,6
140606	794154	1 x 4,00 mm²	Black	4,2
140630		1 x 4,00 mm²	Yell/Green	4,2
140656	794155	1 x 6,00 mm²	Black	4,2
140680		1 x 6,00 mm²	Yell/Green	4,2
140706	794156	1 x 10,00 mm²	Black	6,3
140718	794157	1 x 16,00 mm²	Black	7,4
140730	794158	1 x 25,00 mm²	Black	9,1
140742	794159	1 x 35,00 mm²	Black	10,7
140754	794160	1 x 50,00 mm²	Black	12,7
140766		1 x 70,00 mm²	Black	14,8
140778	794161	1 x 95,00 mm²	Black	17,0

MASSIVE SINGLE CORE CABLE

VMD/VD - Insulated wire, solid core

Conductor: Plain copper
Insulation: Vinyl - PVC
Rated Voltage: 450/750V
Test Voltage: 2500V

Cat. no.	Number of conductors x mm²	Colour	Outside dia mm
141112	1 x 0,75 mm²	White	2,2
141172	1 x 1 mm²	White	2,4
141184	1 x 1,5 mm²	Black	2,7
141206	1 x 2,5 mm²	Brown	3,3
141218	1 x 2,5 mm²	Blue	3,3
141230	1 x 2,5 mm²	Yell/Green	3,3
141254	1 x 4 mm²	Black	3,9
141266	1 x 6 mm²	Black	4,4
141278	1 x 10 mm²	Black	5,6

CABLE PARALLEL TWIN

VTS - PVC insulated parallel flexible cable

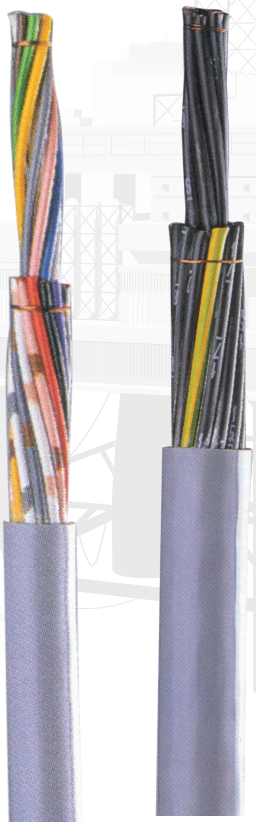
Conductor: Flexible electrolytic copper
Insulation: Vinyl - PVC
Rated Voltage: 200/300V
Test Voltage: 2000V

Cat. no.	Impa no.	Number of conductors x mm²	Colour	Outside dia mm
141312	794202	2 x 0,75 mm²	White	6 x 2,9
141318		2 x 0,75 mm²	Black	6 x 2,9
141324		2 x 0,75 mm²	Brown	6 x 2,9
141330		2 x 0,75 mm²	Gold	6 x 2,9
141336		2 x 0,75 mm²	Transparent	6 x 2,9

VMVL - PVC insulated parallel flexible cable

Conductor: Flexible electrolytic copper **Rated Voltage: 300/500V**
Insulation: Vinyl - PVC **Test Voltage: 2000V**

Cat. no.	Impa no.	Number of conductors x mm²	Colour	Outside dia mm
141406	794166	2 x 0,75 mm²	White	6,5
141410		2 x 1,0 mm²	White	7,0
141414	794167	2 x 1,5 mm²	White	8,0
141418	794168	2 x 2,5 mm²	White	9,5
141422	794176	3 x 0,75 mm²	White	7,0
141426		3 x 1,0 mm²	White	7,5
141430	794177	3 x 1,5 mm²	White	8,5
141434	794178	3 x 2,5 mm²	White	10,5
141438	794186	4 x 0,75 mm²	White	7,5
141442		4 x 1,0 mm²	White	8,0
141446	794187	4 x 1,5 mm²	White	9,5
141450	794188	4 x 2,5 mm²	White	11,5
141454		5 x 1,5 mm²	White	10,5
141458		5 x 2,5 mm²	White	12,5
141470		7 x 1,5 mm²	White	12,0
141506		2 x 0,75 mm²	Black	6,5
141510		2 x 1,0 mm²	Black	7,0
141514		2 x 1,5 mm²	Black	8,0
141518		2 x 2,5 mm²	Black	9,5
141522		3 x 0,75 mm²	Black	7,0
141526		3 x 1,0 mm²	Black	7,5
141530		3 x 1,5 mm²	Black	8,5
141534		3 x 2,5 mm²	Black	10,5
141538		4 x 0,75 mm²	Black	7,5
141542		4 x 1,0 mm²	Black	8,0
141546		4 x 1,5 mm²	Black	9,5
141550		4 x 2,5 mm²	Black	11,5
141554		5 x 1,5 mm²	Black	10,5
141558		5 x 2,5 mm²	Black	12,5



LIYY - PVC control cable, flexible

Conductor: Stranded conductivity copper
Insulation: Vinyl - PVC, colour grey
Rated Voltage: 300/500V
Test Voltage: 2000V

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
142106	794239	2 x 0,5 mm²	5,0
142110	794242	3 x 0,5 mm²	5,3
142114	794247	4 x 0,5 mm²	5,9
142118		6 x 0,5 mm²	7,0
142122		8 x 0,5 mm²	8,0
142126		10 x 0,5 mm²	10,0
142130		12 x 0,5 mm²	10,3
142134		18 x 0,5 mm²	12,4
142138		20 x 0,5 mm²	12,8
142142		25 x 0,5 mm²	14,8
142206		2 x 1,0 mm²	6,0
142210		3 x 1,0 mm²	6,4
142214		4 x 1,0 mm²	6,9
142218		5 x 1,0 mm²	7,5
142222		8 x 1,0 mm²	8,9
142230		12 x 1,0 mm²	11,4
142234		18 x 1,0 mm²	13,6
142242		25 x 1,0 mm²	16,0
142246		34 x 1,0 mm²	17,9
142250		42 x 1,0 mm²	19,8
142254		50 x 1,0 mm²	23,4
142306		2 x 1,5 mm²	7,0
142310		3 x 1,5 mm²	7,4
142314		4 x 1,5 mm²	8,1
142318		5 x 1,5 mm²	9,1
142322		7 x 1,5 mm²	10,1
142330		12 x 1,5 mm²	13,8
142334		18 x 1,5 mm²	16,3
142338		21 x 1,5 mm²	17,3
142342		25 x 1,5 mm²	19,8
142346		34 x 1,5 mm²	21,7
142350		42 x 1,5 mm²	23,1
142354		50 x 1,5 mm²	27,9
142410		3 x 2,5 mm²	9,6
142414		4 x 2,5 mm²	10,7
142418		5 x 2,5 mm²	11,9
142422		7 x 2,5 mm²	13,3
142430		12 x 2,5 mm²	18,2
142434		18 x 2,5 mm²	20,5
142442		25 x 2,5 mm²	25,2

LIYCY - PVC control cable with copper screen, flexible

Conductor: Stranded conductivity copper
Insulation: Vinyl - PVC, colour grey
Armour: Copper wire braiding
Rated Voltage: 300/500V
Test Voltage: 3000V

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
142606		2 x 0,75 mm²	6,8
142610		3 x 0,75 mm²	7,1
142614	794248	4 x 0,75 mm²	7,7
142618		6 x 0,75 mm²	8,8
142630		12 x 0,75 mm²	11,4
142634		18 x 0,75 mm²	13,0
142706		2 x 1,0 mm²	7,2
142710		3 x 1,0 mm²	7,6
142714		4 x 1,0 mm²	8,1
142718		5 x 1,0 mm²	8,8
142722		7 x 1,0 mm²	9,6
142730		12 x 1,0 mm²	12,1
142734		18 x 1,0 mm²	14,0
142742		24 x 1,0 mm²	16,4
142750		42 x 1,0 mm²	19,5
142754		50 x 1,0 mm²	23,8
142758		61 x 1,0 mm²	27,3
142762		80 x 1,0 mm²	32,7
142806		2 x 1,5 mm²	8,2
142810		3 x 1,5 mm²	8,7
142814		4 x 1,5 mm²	9,5
142818		5 x 1,5 mm²	10,3
142822		7 x 1,5 mm²	11,1
142830		12 x 1,5 mm²	14,3
142834		18 x 1,5 mm²	16,7
142838		20 x 1,5 mm²	17,7
142842		25 x 1,5 mm²	19,8
142846		34 x 1,5 mm²	21,4
142850		42 x 1,5 mm²	23,4
142854		50 x 1,5 mm²	28,7
142858		61 x 1,5 mm²	29,1
142862		80 x 1,5 mm²	34,8
142910		3 x 2,5 mm²	8,2
142914		4 x 2,5 mm²	8,7
142918		5 x 2,5 mm²	9,5
142922		7 x 2,5 mm²	10,3
142930		12 x 2,5 mm²	11,1

YMVK mb - Unarmoured PVC sheathed, not for using on vessels

Conductor: Plain copper
Insulation: Vinyl - PVC
Rated Voltage: 450/750V
Test Voltage: 2500V

Cat. no.	Number of conductors x mm²	Outside dia mm
143024	1 x 6 mm²	7,0
143028	1 x 10 mm²	8,5
143032	1 x 16 mm²	9,5
143036	1 x 25 mm²	11,0
143112	2 x 1,5 mm²	10,0
143116	2 x 2,5 mm²	10,5
143120	2 x 4 mm²	11,5
143124	2 x 6 mm²	12,5
143128	2 x 10 mm²	16,0
143212	3 x 1,5 mm²	10,0
143216	3 x 2,5 mm²	11,5
143220	3 x 4 mm²	12,0
143224	3 x 6 mm²	13,0
143228	3 x 10 mm²	17,0
143312	4 x 1,5 mm²	11,0
143316	4 x 2,5 mm²	12,0
143320	4 x 4 mm²	13,0
143324	4 x 6 mm²	14,0
143328	4 x 10 mm²	18,0
143412	5 x 1,5 mm²	10,0
143416	5 x 2,5 mm²	11,5
143420	5 x 4 mm²	12,0
143424	5 x 6 mm²	13,0
143428	5 x 10 mm²	17,0

YMVK - AS mb - Armoured PVC sheathed, not for using on vessels

Conductor: Plain copper
Insulation: Vinyl - PVC
Armour: Galvanized steel wire braiding
Rated Voltage: 600/1000V
Test Voltage: 3500V

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
144112		2 x 1,5 mm²	12,5
144116		2 x 2,5 mm²	13,5
144120		2 x 4 mm²	14,5
144124		2 x 6 mm²	15,5
144128		2 x 10 mm²	20,0
144212		3 x 1,5 mm²	13,0
144216		3 x 2,5 mm²	14,0
144220		3 x 4 mm²	15,0
144224		3 x 6 mm²	16,0
144228		3 x 10 mm²	21,0
144312		4 x 1,5 mm²	14,0
144316		4 x 2,5 mm²	14,5
144320		4 x 4 mm²	16,0
144324		4 x 6 mm²	17,0
144328		4 x 10 mm²	22,0
144412		5 x 1,5 mm²	15,0
144416		5 x 2,5 mm²	16,0
144420		5 x 4 mm²	17,0
144424		5 x 6 mm²	18,5

RWPK / HO5RR-F - Rubber sheathed flexible cord

Conductor: Flexible tinned electrolytic copper
Insulation: Rubber
Rated Voltage: 300/500V
Test Voltage: 2000V

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
145012	794121	2 x 0,75 mm²	6,5
145016		2 x 1,00 mm²	7,0
145020	794122	2 x 1,50 mm²	8,5
145024	794123	2 x 2,50 mm²	10,0
145062	794131	3 x 0,75 mm²	7,0
145066		3 x 1,00 mm²	7,5
145070	794132	3 x 1,50 mm²	9,0
145074	794133	3 x 2,50 mm²	10,5
145116		4 x 1,00 mm²	8,0
145120	794142	4 x 1,50 mm²	10,0
145124	794143	4 x 2,50 mm²	12,0
145170	794142	5 x 1,50 mm²	11,0
145174	794143	5 x 2,50 mm²	13,0

Rubber sheathed flexible parallel illumination cable

Conductor: Flexible tinned electrolytic copper
Insulation: Rubber
Rated Voltage: 300/500V
Test Voltage: 2000V

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
145220		2 x 1,5 mm²	13 x 5
145224		2 x 2,5 mm²	13 x 5

NWPK/H07RN-F - Neoprene rubber sheathed flexible cord

Conductor: Flexible tinned electrolytic copper **Rated Voltage:** 450/750V
Insulation: Rubber **Test Voltage:** 2500V

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
145316		2 x 1,0 mm²	8,5
145320	794122	2 x 1,5 mm²	9,5
145324	794123	2 x 2,5 mm²	11,5
145328	794124	2 x 4,0 mm²	13,0
145332	794125	2 x 6,0 mm²	14,5
145336	794126	2 x 10 mm²	21,0
145340	794127	2 x 16 mm²	24,0
145416		3 x 1,0 mm²	9,5
145420	794132	3 x 1,5 mm²	10,5
145424	794133	3 x 2,5 mm²	12,0
145428	794134	3 x 4,0 mm²	14,0
145432	794135	3 x 6,0 mm²	15,5
145436	794136	3 x 10 mm²	22,0
145440	794137	3 x 16 mm²	25,0
145444		3 x 25 mm²	31,0
145448		3 x 35 mm²	35,0
145452		3 x 50 mm²	41,0
145456		3 x 70 mm²	46,0
145460		3 x 95 mm²	52,0
145464		3 x 120 mm²	56,0
145516		4 x 1,0 mm²	10,0
145520	794142	4 x 1,5 mm²	11,0
145524	794143	4 x 2,5 mm²	13,0
145528	794144	4 x 4,0 mm²	15,5
145532	794145	4 x 6,0 mm²	17,5
145536	794146	4 x 10 mm²	25,0
145540	794147	4 x 16 mm²	28,0
145544		4 x 25 mm²	34,0
145548		4 x 35 mm²	39,0
145552		4 x 50 mm²	45,0
145556		4 x 70 mm²	51,0
145560		4 x 95 mm²	58,0
145564		4 x 120 mm²	63,0

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CABLE - NEOPRENE RUBBER - GENERAL PURPOSE

NWPK/H07RN-F - Neoprene rubber sheathed flexible cord

continuation

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
145620		5 x 1,5 mm²	12,5
145624		5 x 2,5 mm²	14,5
145628		5 x 4,0 mm²	17,0
145632		5 x 6,0 mm²	19,5
145636		5 x 10 mm²	27,0
145640		5 x 16 mm²	31,0
145644		5 x 25 mm²	38,0
145648		5 x 35 mm²	
145720		7 x 1,5 mm²	15,0
145724		7 x 2,5 mm²	17,5
145770		9 x 1,5 mm²	17,5
145774		9 x 2,5 mm²	20,0
145820		12 x 1,5 mm²	18,5
145824		12 x 2,5 mm²	22,0
145870		19 x 1,5 mm²	21,0

CABLE HEAVY PURFLEX - GENERAL PURPOSE

QWPK - Polyurethan (Purflex) cable

Conductor: Flexible tinned electrolytic copper **Rated Voltage:** 300/500V
Insulation: Polyurethan, colour yellow **Test Voltage:** 2500V

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
146016		2 x 1,0 mm²	7,2
146020		2 x 1,5 mm²	8,7
146024		2 x 2,5 mm²	10,2
146066		3 x 1,0 mm²	7,6
146070		3 x 1,5 mm²	9,2
146074		3 x 2,5 mm²	10,8
146078		3 x 4,0 mm²	12,7

continue on next page

CABLE HEAVY PURFLEX - GENERAL PURPOSE

QWPK - Polyurethan (Purflex) cable

continuation

Cat. no.	Number of conductors x mm²	Outside dia mm
146116	4 x 1,0 mm²	8,2
146120	4 x 1,5 mm²	10,2
146124	4 x 2,5 mm²	12,1
146128	4 x 4,0 mm²	14,0
146132	4 x 6,0 mm²	15,9
146166	5 x 1,0 mm²	9,1
146170	5 x 1,5 mm²	11,1
146174	5 x 2,5 mm²	13,4
146178	5 x 4,0 mm²	15,6
146182	5 x 6,0 mm²	17,4

CABLE HEAT RESISTANT

Silicone-Mineral Fibre - Heat resistant insulated flexible cable (+400 °C)

Conductor: Flexible tinned electrolytic copper
Insulation: Silicone-coated mineral fibre braid
Rated Voltage: 300/500V
Test Voltage: 2000V

Cat. no.	Number of conductors x mm²	Outside dia mm
147020	1 x 1,5 mm²	3,4
147024	1 x 2,5 mm²	4,0
147028	1 x 4,0 mm²	4,5

SIHFP - Armoured heat resistant insulated flexible cable (+180 °C)

Conductor: Flexible tinned electrolytic copper
Insulation: Silicone
Armour: Galvanized steel wire braiding
Rated Voltage: 300/500V
Test Voltage: 2000V

Cat. no.	Number of conductors x mm²	Outside dia mm
147420	2 x 1,5 mm²	8,6
147470	3 x 1,5 mm²	9,2

SIF / SIHF - Heat resistant insulated flexible cable (+180 °C)

Conductor: Flexible tinned electrolytic copper
Insulation: Silicone
Rated Voltage: 300/500V
Test Voltage: 2000V

Cat. no.	Number of conductors x mm²	Colour	Outside dia mm
147108	1 x 0,5 mm²		2,1
147112	1 x 0,75 mm²		2,4
147116	1 x 1,0 mm²		2,5
147120	1 x 1,5 mm²		2,8
147124	1 x 2,5 mm²		3,4
147128	1 x 1,4 mm²		4,2
147132	1 x 1,6 mm²		5,2
147136	1 x 10 mm²		6,8
147140	1 x 16 mm²		8,4
147144	1 x 25 mm²		10,3
147212	2 x 0,75 mm²		6,4
147216	2 x 1,0 mm²		6,7
147220	2 x 1,5 mm²		7,6
147224	2 x 2,5 mm²		9,2
147228	2 x 4 mm²		10,8
147262	3 x 0,75 mm²		6,8
147266	3 x 1,0 mm²		7,5
147270	3 x 1,5 mm²		8,0
147274	3 x 2,5 mm²		9,7
147278	3 x 4 mm²		11,5
147282	3 x 3,6 mm²		14,2
147320	4 x 1,5 mm²		8,8
147324	4 x 2,5 mm²		10,6
147328	4 x 4,0 mm²		13,1
147332	4 x 6,0 mm²		16,2
147370	5 x 1,5 mm²		9,6
147374	5 x 2,5 mm²		11,6
147378	5 x 4,0 mm²		14,4
147382	5 x 6,0 mm²		17,7

Rubber welding cable

Conductor: Very flexible tinned electrolytic copper
Insulation: Rubber
Rated Voltage: 100/100V
Test Voltage: 1000V

Cat. no.	Impa no.	Number of conductors x mm²	Current rating	Outside dia mm
147512	794101	1 x 16 mm²	135 Amp	10,5
147516	794101	1 x 25 mm²	180 Amp	12,0
147520	794102	1 x 35 mm²	225 Amp	13,0
147524	794103	1 x 50 mm²	285 Amp	15,0
147528	794103	1 x 70 mm²	355 Amp	17,5
147532	794104	1 x 95 mm²	430 Amp	20,0
147536		1 x 120 mm²	500 Amp	22,0

Shipboard and offshore switchboard wire, halogen-free

Conductor: Stranded annealed copper
Insulation: Vinyl - PVC
Rated Voltage: 600/1000 (1,2kV)
Test Voltage: 2500V
Approved by: Mayor shipping authorities

Cat. no.	Number of conductors x mm²	Outside dia mm
148008	1 x 0,75 mm²	2,8
148012	1 x 1,0 mm²	3,0
148016	1 x 1,5 mm²	3,2
148020	1 x 2,5 mm²	3,8
148024	1 x 4,0 mm²	4,4
148028	1 x 6,0 mm²	5,4
148032	1 x 10 mm²	6,6
148036	1 x 16 mm²	6,8
148040	1 x 25 mm²	8,6
148044	1 x 35 mm²	10,2
148048	1 x 50 mm²	12,2
148052	1 x 70 mm²	14,4

Marine instrumentation and communication cable, halogen-free

Conductor: Stranded annealed copper
Insulation: Vinyl - PVC
Armour: Copper wire braiding

Rated Voltage: 0,5 mm² 60V
0,75 mm² 250V
Test Voltage: 1500V
Approved by: Major shipping authorities

Cat. no.	Number of conductors x mm²	Outside dia mm
148108	1 x 2 x 0,5 mm²	7,0
148114	2 x 2 x 0,5 mm²	8,0
148116	4 x 2 x 0,5 mm²	14,0
148120	7 x 2 x 0,5 mm²	14,0
148124	8 x 2 x 0,5 mm²	14,5
148128	10 x 2 x 0,5 mm²	17,0
148132	14 x 2 x 0,5 mm²	18,5
148136	19 x 2 x 0,5 mm²	21,0
148140	24 x 2 x 0,5 mm²	23,5
148158	1 x 2 x 0,75 mm²	7,2
148166	2 x 2 x 0,75 mm²	8,0
148170	4 x 2 x 0,75 mm²	11,7
148174	6 x 2 x 0,75 mm²	13,6
148178	7 x 2 x 0,75 mm²	13,6
148182	8 x 2 x 0,75 mm²	16,3
148186	10 x 2 x 0,75 mm²	17,2
148188	12 x 2 x 0,75 mm²	18,4
148190	14 x 2 x 0,75 mm²	19,5
148194	19 x 2 x 0,75 mm²	21,5
148198	24 x 2 x 0,75 mm²	24,4

Unarmoured Marine power and control cable, halogen-free

Conductor: Stranded annealed copper
Insulation: Vinyl - PVC
Rated Voltage: 600/1000V
Test Voltage: 3500V
Approved by: Major shipping authorities

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
148224		1 x 4 mm²	7,0
148228	794275	1 x 6 mm²	7,5
148232	794276	1 x 10 mm²	8,5
148236	794277	1 x 16 mm²	10,0
148240		1 x 25 mm²	11,0
148244		1 x 35 mm²	13,0
148248		1 x 50 mm²	15,0
148252		1 x 70 mm²	17,0
148256		1 x 95 mm²	19,0
148260		1 x 120 mm²	20,5
148264		1 x 150 mm²	22,5
148268		1 x 185 mm²	25,0
148272		1 x 240 mm²	30,0
148316	794278	2 x 1,5 mm²	9,5
148320	794279	2 x 2,5 mm²	10,5
148324	794280	2 x 4,0 mm²	12,0
148328	794281	2 x 6,0 mm²	15,0
148332	794282	2 x 10 mm²	17,5
148336		2 x 16 mm²	20,0
148340		2 x 25 mm²	25,0
148344		2 x 35 mm²	
148416	794283	3 x 1,5 mm²	10,0
148420	794284	3 x 2,5 mm²	11,0
148424	794285	3 x 4,0 mm²	12,5
148428	794286	3 x 6,0 mm²	14,0
148432	794287	3 x 10 mm²	16,0
148436	794288	3 x 16 mm²	18,5
148440		3 x 25 mm²	22,0
148444		3 x 35 mm²	25,0
148448		3 x 50 mm²	29,5
148452		3 x 70 mm²	34,0
148456		3 x 95 mm²	38,0
148460		3 x 120 mm²	42,0
148464		3 x 150 mm²	46,5
148468		3 x 185 mm²	57,0
148472		3 x 240 mm²	65,0

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Unarmoured Marine power and control cable, halogen-free

continuation

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
148516	794289	4 x 1,5 mm²	11,0
148520	794290	4 x 2,5 mm²	12,5
148523	794291	4 x 4,0 mm²	13,5
148528	794292	4 x 6,0 mm²	15,5
148532	794293	4 x 10 mm²	18,0
148536	794294	4 x 16 mm²	20,5
148616		5 x 1,5 mm²	12,5
148620		5 x 2,5 mm²	13,5
148666		6 x 1,5 mm²	13,0
148686		7 x 1,5 mm²	11,0
148706		8 x 1,5 mm²	12,0
148716		10 x 1,5 mm²	13,5
148726		12 x 1,5 mm²	17,0
148736		16 x 1,5 mm²	19,5
148746		19 x 1,5 mm²	22,0
148366		27 x 1,5 mm²	29,0

Armoured Marine power and control cable, halogen-free

Conductor: Stranded annealed copper
Insulation: Vinyl - PVC
Armour: Copper wire braiding
Rated Voltage: 600/1000V
Test Voltage: 3500V
Approved by: Major shipping authorities

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
149224		1 x 4,0 mm²	8,5
149228	794304	1 x 6,0 mm²	9,0
149232	794305	1 x 10 mm²	10,0
149236	794333	1 x 16 mm²	11,0
149240		1 x 25 mm²	13,0
149244		1 x 35 mm²	15,5
149248		1 x 50 mm²	16,5
149252		1 x 70 mm²	18,5
149256		1 x 95 mm²	20,5
149260		1 x 120 mm²	22,0
149264		1 x 150 mm²	24,0
149268		1 x 185 mm²	26,5
149272		1 x 240 mm²	31,0
149316	794308	2 x 1,5 mm²	11,0
149320	794309	2 x 2,5 mm²	12,0
149324	794310	2 x 4,0 mm²	13,5
149328	794311	2 x 6,0 mm²	17,5
149332	794312	2 x 10 mm²	19,5
149336		2 x 16 mm²	22,0
149340		2 x 25 mm²	26,0
149344		2 x 35 mm²	29,0
149416	794315	3 x 1,5 mm²	12,0
149420	794316	3 x 2,5 mm²	13,0
149424	794317	3 x 4,0 mm²	14,5
149428	794318	3 x 6,0 mm²	16,0
149432	794319	3 x 10 mm²	18,0
149436	794320	3 x 16 mm²	20,5
149440		3 x 25 mm²	24,0
149444		3 x 35 mm²	27,0
149448		3 x 50 mm²	31,0
149452		3 x 70 mm²	36,5
149456		3 x 95 mm²	40,5
149460		3 x 120 mm²	44,0
149464		3 x 150 mm²	49,0
149468		3 x 185 mm²	59,0
149472		3 x 240 mm²	67,0

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Armoured Marine power and control cable, halogen-free

continuation

Cat. no.	Impa no.	Number of conductors x mm²	Outside dia mm
149516	794345	4 x 1,5 mm²	13,0
149520	794346	4 x 2,5 mm²	14,5
149524	794347	4 x 4,0 mm²	16,0
149528	794348	4 x 6,0 mm²	17,5
149532	794349	4 x 10 mm²	20,0
149536	794350	4 x 16 mm²	23,0
149540		4 x 25 mm²	26,5
149616	794322	5 x 1,5 mm²	14,5
149620		5 x 2,5 mm²	15,5
149666		6 x 1,5 mm²	15,0
149686	794323	7 x 1,5 mm²	15,5
149706		8 x 1,5 mm²	16,0
149716	794324	10 x 1,5 mm²	19,5
149726	794325	12 x 1,5 mm²	20,0
149736		16 x 1,5 mm²	22,0
149746	794329	19 x 1,5 mm²	23,5
149766		27 x 1,5 mm²	28,0

COAXIAL CABLE

Coaxial cable					
Cat. no.	*Impa no.*	*Type*	*Ohm*	*Colour*	*Outside dia mm*
150024	794273	RG-58C/U	50	Black	4,95
150036	794261	RG-59B/U	75	Black	6,2
150048	794274	RG-213/U	50	Black	10,3
150060		RG-214/U	50	Black	10,8
150112	794263	Brass/Brass	75	White	5,5
150118		Silver/Silver	75	White	6,0
150130	794264	Coax-12	75	Grey	7,5

IGNITION CABLE

High voltage cable, test voltage 6000V		
Cat. no.	*Number of conductors x mm²*	*Outside dia mm*
150212	1 x 1,5 mm²	7,0

YARN WRAPPED CABLE

Flexible yarn wrapped cable			
Cat. no.	*Impa no.*	*Number of conductors x mm²*	*Outside dia mm*
150316	794207	3 x 0,75 mm²	7,0

Signal cable

Conductor: Plain copper
Insulation: Vinyl - PVC
Rated Voltage: 300V
Test Voltage: 1500V

Cat. no.	*Number of conductors x mm²*	*Outside dia mm*
150412	2 x 0,8 mm²	3,9
150416	3 x 0,8 mm²	4,1
150420	4 x 0,8 mm²	4,6
150424	6 x 0,8 mm²	5,4
150428	8 x 0,8 mm²	6,3
150432	10 x 0,8 mm²	7,1
150436	12 x 0,8 mm²	7,3
150440	16 x 0,8 mm²	8,1
150444	20 x 0,8 mm²	9,2
150448	24 x 0,8 mm²	10,1

Telephone cable

Cat. no.	*Number of conductors x mm²*	*Outside dia mm*
150512	1 x 4 x 0,5 mm² + 0,5 mm²	4,4
150548	4 x 0,075 mm²	3,5

Modulair Telephone cable

Cat. no.	*Number of conductors x mm²*	*Colour*	*Outside dia mm*
150562	4 x 0,075mm²	Black	5 x 2,5
150568	4 x 0,075mm²	White	5 x 2,5

DATA CABLE

Data cable, UTP

Conductor: Plain copper
Insulation: Vinyl - PVC

Cat. no.	Type	Number of conductors x mm²	Outside dia mm
150580	Cat-5e	4 x 2 x 0,5 mm²	4,9
150582	Cat-6	4 x 2 x 0,57 mm²	6,2

Data cable with armour, FTP

Conductor: Plain copper **Screen: Aluminium, polyester**
Insulation: Vinyl - PVC

Cat. no.	Type	Number of conductors x mm²	Outside dia mm
150590	Cat-5e	4 x 2 x 0,5 mm²	6,0
150592	Cat-6	4 x 2 x 0,57 mm²	7,2

LOUDSPEAKER CABLE

Loudspeaker cable

Conductor: Flexible electrolytic copper **Test Voltage: 1000V**
Insulation: Vinyl - PVC

Cat. no.	Impa no.	Number of conductors x mm²	Colour	Outside d ia mm
150612		2 x 0,35 mm²	Grey	3,8 x 1,9
150618		2 x 0,35 mm²	Black	3,8 x 1,9
150624		2 x 0,35 mm²	White	3,8 x 1,9
150632		2 x 0,75 mm²	Red/Black	3,8 x 1,9
150636	794203	2 x 1,5 mm²	Red/Black	6,5 x 3,2
150642	794204	2 x 2,5 mm²	Red/Black	7,3 x 3,4

LAN / PATCH CABLE

Lan / Patch cables

Cat. no.	Impa no.	Description
150950	472848	Lan / Patch cable Cat5 grey, length 1 mtr
150952	472849	Lan / Patch cable Cat5 grey, length 2 mtr
150954	472850	Lan / Patch cable Cat5 grey, length 3 mtr
150960	472851	Lan / Patch cable Cat5 grey, length 5 mtr
150968	472852	Lan / Patch cable Cat5 grey, length 10 mtr
150974	472853	Lan / Patch cable Cat5 grey, length 20 mtr
150980	472854	Lan / Patch cable Cat5 grey, length 50 mtr

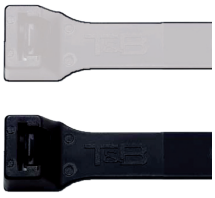
Selflocking Cable ties, Colourless		
Cat. no.	*Impa no.*	*Dimensions*
151112	794851	100 x 2,5 mm
151124	794852	150 x 3,6 mm
151136	794853	200 x 2,6 mm
151148	794854	290 x 3,6 mm
151160	794855	300 x 5,0 mm
151172	794856	350 x 5,0 mm
151184		450 x 8,0 mm
151196		762 x 9,0 mm

Selflocking Cable ties, Black		
Cat. no.	*Impa no.*	*Dimensions*
151012	794851	100 x 2,5 mm
151024	794852	150 x 3,6 mm
151036	794853	200 x 2,6 mm
151048	794854	290 x 3,6 mm
151060	794855	300 x 5,0 mm
151072	794856	350 x 5,0 mm
151084		450 x 8,0 mm
151096		762 x 9,0 mm

Selflocking Cable ties, Legrand type Colson™ - Black UV resistant			
Cat. no.	*Impa no.*	*Dimensions*	*Type*
151212		185 x 9,0 mm	319 13
151216		262 x 9,0 mm	319 16
151218		357 x 9,0 mm	319 19
151224		760 x 9,0 mm	319 21

Selflocking Cable ties, Thomas & Betts type TY-RAP® - Colourless UV resistant			
Cat. no.	**Impa no.**	**Dimensions**	**Type**
151306	794851	92 x 2,4 mm	TY-23M
151312	794853	203 x 2,4 mm	TY-232M
151318		356 x 2,4 mm	TY-234M
151324	794852	140 x 3,6 mm	TY-24M
151330		208 x 3,6 mm	TY-242M
151336	794854	284 x 3,6 mm	TY-26M
151342		368 x 3,6 mm	TY-244M
151348		186 x 4,8 mm	TY-25M
151354	794855	293 x 4,8 mm	TY-253M
151360	794856	360 x 4,8 mm	TY-28M
151366		223 x 7,6 mm	TY-272M
151372		338 x 7,6 mm	TY-27M
151378		762 x 7,6 mm	TY-29M

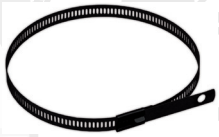
Selflocking Cable ties, Thomas & Betts type TY-RAP® - Black UV resistant			
Cat. no.	**Impa no.**	**Dimensions**	**Type**
151406	794851	92 x 2,4 mm	TY-23MX
151412	794853	203 x 2,4 mm	TY-232MX
151418		356 x 2,4 mm	TY-234MX
151424	794852	140 x 3,6 mm	TY-24MX
151430		208 x 3,6 mm	TY-242MX
151436	794854	284 x 3,6 mm	TY-26MX
151442		368 x 3,6 mm	TY-244MX
151448		186 x 4,8 mm	TY-25MX
151454	794855	293 x 4,8 mm	TY-253MX
151460	794856	360 x 4,8 mm	TY-28MX
151466		223 x 7,6 mm	TY-272MX
151472		338 x 7,6 mm	TY-27MX
151478		762 x 7,6 mm	TY-29MX



Selflocking Cable ties, Thomas & Betts type Catamount		
Cat. no.	**Dimensions**	**Type**
151488	1219 x 8,8 mm	L48-175-9-L White
151490	1219 x 8,8 mm	L48-175-0-L Black

Selflocking Cable ties, Hellermann - Black UV resistant		
Cat. no.	*Dimensions*	*Type*
151502	210 x 8 mm	KR8/21 - bag of 50 pcs
151504	337 x 8 mm	KR8/33 - bag of 50 pcs

Selflocking Cable ties, Stainless steel - Uncoated		
Cat. no.	*Dimensions*	*Type*
151524	300 x 7 mm	AE 603
151530	450 x 7 mm	AE 604



Selflocking Cable ties, Stainless steel - Coated		
Cat. no.	*Dimensions*	*Type*
151550	300 x 7 mm	AE-613
151556	450 x 7 mm	AE-614

fig. 1

fig. 2

fig. 3

Tools for selflocking cable straps			
Cat. no.	*Dimensions*	*Type*	*Fig.*
151612	Tool for cable ties till 4,8 mm	YTT-6	1
151624	Hellermann Tool for cable ties till 7,6 mm	KR6,8	2
151636	Legrand Tool for Colson cable ties	319 92	3

Tools for selflocking cable straps		
Cat. no.	*Dimensions*	*For ties max.*
151718	20 x 20 mm	3,6 mm
151724	29 x 29 mm	4,8 mm

Screw mounting bases for selflocking cable ties		
Cat. no.	*Dimensions*	*For ties max.*
151730	17,0 x 11,1 mm	4,8 mm
151736	23,4 x 14,2 mm	7,6 mm

PVC cable clips with nail			
Cat. no.	*Impa no.*	*Cable size*	*For*
151812		5 - 6 mm	Flat cable
151814		2,5 - 4 mm	Round cable
151816	794791	5 - 7 mm	Round cable
151832	794792	8 - 10 mm	Round cable
151836	794793	11 - 15 mm	Round cable
151848	794794	16 - 19 mm	Round cable
151850	794796	19 - 22 mm	Round cable

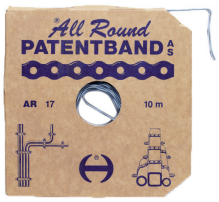
PVC cable clips with nail	
Cat. no.	*Description*
151866	Adhesive cable clip, white

Cable saddles, galvanized		
Cat. no.	*Impa no.*	*Cable size*
151912		8 - 9 mm
151918		10 - 11mm
151924	794771	12 - 13 mm
151930	794772	14 - 15 mm
151936	794773	15 - 16 mm
151942		17 - 18 mm
151948	794774	19 - 20 mm
151954	794775	21 - 22 mm

Cable saddles, steel	
Cat. no.	*Cable size*
152006	5/8" - 16 mm
152014	3/4" - 19 mm

SOM-cable saddles PVC	
Cat. no.	*Cable size*
152028	6 - 17 mm
152032	15 - 25 mm

Spiral cable wrapping, colourless		
Cat. no.	Diameter mm	Box of mtr
152108	ø 5 - 50 mm	30
152112	ø 10 - 100 mm	15



Assembling strap (patent band), rolls of 10 mtr		
Cat. no.	Size	Material
152208	12 mm	Galvanised
152214	17 mm	Galvanised
152220	12 mm	Galvanised / PVC coated
152226	19 mm	Galvanised / PVC coated
152232	12 mm	Copper
152238	17 mm	Copper

Slotted strap Stainless Steel with PVC coating, roll of 25 mtr			
Cat. no.	Impa no.	Description	Sizes
152306	614106	Band Stainless Steel with PVC coat	15,88 x 1,22 mm
152312	614112	Locks for above	
152318	614101	Tool for above	

Cable glands IP54, brass nickel plated				
Cat. no.	*Impa no.*	*Thread*	*For cable*	*Tread length*
153106	794811	PG 7	6 - 8 mm	5 mm
153112	794812	PG 9	8 - 10 mm	6 mm
153118		PG 11	10 - 12 mm	5 mm
153124	794813	PG 13,5	12 - 14 mm	6,5 mm
153130	794814	PG 16	14 - 16 mm	6,5 mm
153136	794815	PG 21	19 - 21 mm	7 mm
153142	794816	PG 29	26 - 28 mm	8 mm
153148	794818	PG 36	33 - 35 mm	9 mm
153154	794819	PG 42	39 - 41 mm	10 mm
153160	794820	PG 48	43 - 45 mm	10 mm
153406		PG 7	6 - 8 mm	15 mm
153412		PG 9	8 - 10 mm	15 mm
153418		PG 11	10 - 12 mm	15 mm
153424		PG 13,5	12 - 14 mm	15 mm
153430		PG 16	14 - 16 mm	15 mm
153436		PG 21	19 - 21 mm	15 mm
153442		PG 29	26 - 28 mm	15 mm
153448		PG 36	33 - 35 mm	15 mm
153454		PG 42	39 - 41 mm	15 mm
153460		PG 48	43 - 45 mm	15 mm
153206		M12 x 1,5 mm	5 - 7 mm	5 mm
153212		M16 x 1,5 mm	6 - 8 mm	5 mm
153218		M20 x 1,5 mm	8 - 10 mm	6 mm
153224		M20 x 1,5 mm	10 - 12 mm	6 mm
153230		M20 x 1,5 mm	12 - 14 mm	6 mm
153236		M25 x 1,5 mm	15 - 17 mm	7 mm
153242		M32 x 1,5 mm	24 - 26 mm	8 mm
153248		M40 x 1,5 mm	33 - 35 mm	8 mm
153254		M50 x 1,5 mm	41 - 43 mm	9 mm
153260		M63 x 1,5 mm	45 - 47 mm	10 mm
153506		M12 x 1,5 mm	5 - 7 mm	10 mm
153512		M16 x 1,5 mm	6 - 8 mm	10 mm
153518		M20 x 1,5 mm	8 - 10 mm	10 mm
153524		M20 x 1,5 mm	10 - 12 mm	10 mm
153530		M20 x 1,5 mm	12 - 14 mm	10 mm
153536		M25 x 1,5 mm	15 - 17 mm	12 mm
153542		M32 x 1,5 mm	24 - 26 mm	12 mm
153548		M40 x 1,5 mm	33 - 35 mm	14 mm
153554		M50 x 1,5 mm	41 - 43 mm	14 mm
153560		M63 x 1,5 mm	45 - 47 mm	14 mm

continue on next page

Cable glands IP54, brass nickel plated

continuation

Cat. no.	Thread	For cable	Tread length
153306	R 3/8"	10 - 12 mm	6 mm
153312	R 1/2"	12 - 14 mm	6,5 mm
153324	R 3/4"	16 - 18 mm	7 mm
153330	R 1"	21 - 23 mm	7 mm
153336	R 1-1/4"	28 - 30 mm	8,5 mm
153630	R 1"	21 - 23 mm	15 mm

Lock nuts, brass nickel plated

Cat. no.	Thread
153906	PG 7
153912	PG 9
153918	PG 11
153924	PG 13,5
153930	PG 16
153936	PG 21
153942	PG 29
153948	PG 36
153954	PG 42
153960	PG 48
154006	M12 x 1,5 mm
154012	M16 x 1,5 mm
154016	M20 x 1,5 mm
154036	M25 x 1,5 mm
154044	M32 x 1,5 mm
154052	M40 x 1,5 mm
154060	M50 x 1,5 mm
154068	M63 x 1,5 mm
154104	R 1/4"
154106	R 3/8"
154112	R 1/2"
154124	R 3/4"
154130	R 1"
154136	R 1-1/4"

CABLE GLANDS, BRASS NICKEL PLATED

Cable glands, IP68 Uni-tight, brass nickel plated			
Cat. no.	*Thread*	*For cable*	*Tread length*
153806	PG 7	3,0 - 6,5 mm	6 mm
153812	PG 9	4,0 - 8,0 mm	6 mm
153818	PG 11	5,0 - 10,0 mm	6 mm
153824	PG 13,5	6,0 - 12,0 mm	6,5 mm
153830	PG 16	10,0 - 14,0 mm	6,5 mm
153836	PG 21	13,0 - 18,0 mm	7 mm
153842	PG 29	18,0 - 25,0 mm	8 mm
153652	M12 x 1,5 mm	3,0 - 6,5 mm	6 mm
153656	M16 x 1,5 mm	5,0 - 10,0 mm	7 mm
153660	M20 x 1,5 mm	6,0 - 12,0 mm	8 mm
153664	M25 x 1,5 mm	11,0 - 17,0 mm	8 mm
153668	M32 x 1,5 mm	15,0 - 21,0 mm	9 mm
153672	M40 x 1,5 mm	18,0 - 25,0 mm	9 mm
153676	M50 x 1,5 mm	22,0 - 32,0 mm	9 mm
153680	M63 x 1,5 mm	34,0 - 44,0 mm	14 mm

CABLE GLANDS, NYLON

Cable glands, nylon			
Cat. no.	*Thread*	*For cable*	*Tread length*
154206	PG 7	3,5 - 6 mm	7,5 mm
154212	PG 9	4,5 - 7 mm	8 mm
154218	PG 11	6 - 9 mm	8 mm
154224	PG 13,5	9 - 12 mm	8 mm
154230	PG 16	11 - 14 mm	10 mm
154236	PG 21	14 - 18 mm	11 mm
154242	PG 29	18 - 25 mm	11 mm
154248	PG 36	25 - 32 mm	13 mm
154254	PG 42	30 - 38 mm	13 mm
154260	PG 48	34 - 42 mm	15 mm
154324	PG 13,5	9 - 12 mm	15 mm
154330	PG 16	11 - 14 mm	15 mm
156206	M12 x 1,5 mm	5 - 8 mm	9 mm
156212	M16 x 1,5 mm	7 - 9 mm	9 mm
156218	M20 x 1,5 mm	7 - 9 mm	10 mm
156224	M20 x 1,5 mm	8 - 12 mm	10 mm

continue on next page

Cable glands, nylon

continuation

Cat. no.	Thread	For cable	Tread length
156230	M20 x 1,5 mm	9 - 14 mm	10 mm
156236	M25 x 1,5 mm	13 - 17 mm	10 mm
156242	M32 x 1,5 mm	18 - 25 mm	12 mm
156248	M40 x 1,5 mm	23 - 27 mm	12 mm
156254	M50 x 1,5 mm	32 - 40 mm	14mm
156260	M63 x 1,5 mm	38 - 44 mm	15 mm

Cable glands, IP68 Compression type, nylon

Cat. no.	Thread	For cable	Tread length
154506	PG 7	3,0 - 6,5 mm	8 mm
154512	PG 9	4,0 - 8,0 mm	8 mm
154518	PG 11	5,0 - 10,0 mm	8 mm
154524	PG 13,5	6,0 - 12,0 mm	9 mm
154530	PG 16	10,0 - 14,0 mm	10 mm
154536	PG 21	13,0 - 18,0 mm	11 mm
154542	PG 29	18,0 - 25,0 mm	11 mm

Lock nuts, nylon

Cat. no.	Thread
154706	PG 7
154712	PG 9
154718	PG 11
154724	PG 13,5
154730	PG 16
154736	PG 21
154742	PG 29
154748	PG 36
154754	PG 42
154760	PG 48

154806	M12 x 1,5 mm
154812	M16 x 1,5 mm
154816	M20 x 1,5 mm
154836	M25 x 1,5 mm
154844	M32 x 1,5 mm
154852	M40 x 1,5 mm
154860	M50 x 1,5 mm
154868	M63 x 1,5 mm

Stopping plugs, brass nickel plated	
Cat. no.	***Thread***
154906	PG 7
154912	PG 9
154918	PG 11
154924	PG 13,5
154930	PG 16
154936	PG 21
154942	PG 29
154948	PG 36
154954	PG 42
154960	PG 48
155182	M12 x 1,5 mm
155184	M16 x 1,5 mm
155186	M20 x 1,5 mm
155188	M25 x 1,5 mm
155190	M32 x 1,5 mm
155192	M40 x 1,5 mm
155194	M50 x 1,5 mm
155196	M63 x 1,5 mm

Stopping plugs, nylon	
Cat. no.	***Thread***
155106	PG 7
155112	PG 9
155118	PG 11
155124	PG 13,5
155130	PG 16
155136	PG 21
155142	PG 29
155148	PG 36
155154	PG 42
155160	PG 48
155202	M12 x 1,5 mm
155204	M16 x 1,5 mm
155206	M20 x 1,5 mm
155208	M25 x 1,5 mm
155210	M32 x 1,5 mm
155212	M40 x 1,5 mm
155214	M50 x 1,5 mm
155216	M63 x 1,5 mm

Japanese cable, brass nickel plated		
Cat. no.	***Thread***	***Description***
155218	R 3/4"	For switch, socket and plug

Reducing rings, brass nickel plated		
Cat. no.	***Outside thread***	***Inside thread***
155412	PG 9	PG 7
155418	PG 11	PG 9
155424	PG 13,5	PG 9
155430	PG 13,5	PG 11
155436	PG 16	PG 9
155442	PG 16	PG 11
155448	PG 16	PG 13,5
155454	PG 21	PG 13,5
155460	PG 21	PG 16
155466	PG 29	PG 21
155472	PG 36	PG 29
155704	M16 x 1,5 mm	M12 x 1,5 mm
155706	M20 x 1,5 mm	M12 x 1,5 mm
155708	M20 x 1,5 mm	M16 x 1,5 mm
155710	M25 x 1,5 mm	M16 x 1,5 mm
155712	M25 x 1,5 mm	M20 x 1,5 mm
155714	M32 x 1,5 mm	M20 x 1,5 mm
155716	M32 x 1,5 mm	M25 x 1,5 mm
155718	M40 x 1,5 mm	M25 x 1,5 mm
155720	M40 x 1,5 mm	M32 x 1,5 mm
155722	M50 x 1,5 mm	M32 x 1,5 mm
155724	M50 x 1,5 mm	M40 x 1,5 mm
155726	M63 x 1,5 mm	M40 x 1,5 mm
155728	M63 x 1,5 mm	M50 x 1,5 mm

CABLE GLANDS, ACCESSORIES

Enlargement rings, brass nickel plated		
Cat. no.	*Outside thread*	*Inside thread*
155512	PG 9	PG 11
155518	PG 11	PG 13,5
155524	PG 11	PG 16
155530	PG 13,5	PG 16
155536	PG 13,5	PG 21
155542	PG 16	PG 21
155548	PG 21	PG 29
155554	PG 29	PG 36

155756	M12 x 1,5 mm	M16 x 1,5 mm
155758	M16 x 1,5 mm	M20 x 1,5 mm
155760	M20 x 1,5 mm	M25 x 1,5 mm
155762	M25 x 1,5 mm	M32 x 1,5 mm
155764	M32 x 1,5 mm	M40 x 1,5 mm
155766	M40 x 1,5 mm	M50 x 1,5 mm
155768	M50 x 1,5 mm	M63 x 1,5 mm

CEAG EX-E CABLE GLANDS AND ACCESSORIES

Ceag Ex-e Cable glands IP66 / IP68, black polyamide			
Cat. no.	*Thread*	*For cable*	*Thread length*
157002	M12 x 1,5 mm	4,0 - 7,0 mm	8 mm
157004	M16 x 1,5 mm	5,5 - 10,0 mm	8 mm
157006	M20 x 1,5 mm	5,5 - 13,0 mm	8 mm
157008	M25 x 1,5 mm	8,0 - 17,0 mm	8 mm
157010	M32 x 1,5 mm	12,0 - 21,0 mm	10 mm

157032	M12 x 1,5 mm	4,0 - 7,0 mm	12 mm
157034	M16 x 1,5 mm	5,5 - 10,0 mm	12 mm
157036	M20 x 1,5 mm	5,5 - 13,0 mm	13 mm
157038	M25 x 1,5 mm	8,0 - 17,0 mm	13 mm
157040	M32 x 1,5 mm	12,0 - 21,0 mm	15 mm
157042	M40 x 1,5 mm	17,0 - 28,0 mm	15 mm
157044	M50 x 1,5 mm	22,0 - 35,0 mm	16 mm
157046	M63 x 1,5 mm	27,0 - 48,0 mm	16 mm

Ceag Enlargement glans (reduced thread diameter) IP66 / IP68, black polyamide

Cat. no.	Thread	For cable	Tread length
157232	M16/M20	5,5 - 13	12 mm
157234	M20/M25	8,0 - 17	13 mm
157236	M25/M32	12 - 21	13 mm
157238	M32/M40	16 - 28	15 mm
157240	M40/M50	21 - 35	15 mm
157242	M50/M63	27 - 48	16 mm

Ceag Ex-e Multiple cable glands IP66 / IP68, black polyamide

Cat. no.	Thread	For cable	Thread length
157062	M25 x 1,5 mm	2x 4,5 - 7,0 mm	8 mm
157064	M32 x 1,5 mm	4x 4,5 - 7,0 mm	10 mm

Ceag Lock nut, black polyamide

Cat. no.	Thread
157082	M12 x 1,5 mm
157084	M16 x 1,5 mm
157086	M20 x 1,5 mm
157088	M25 x 1,5 mm
157090	M32 x 1,5 mm
157092	M40 x 1,5 mm
157094	M50 x 1,5 mm
157096	M63 x 1,5 mm

Ceag Screw plug, black polyamide

Cat. no.	Thread
157102	M16 x 1,5 mm
157104	M20 x 1,5 mm
157106	M25 x 1,5 mm
157108	M32 x 1,5 mm
157110	M40 x 1,5 mm
157112	M50 x 1,5 mm
157114	M63 x 1,5 mm

Ceag Blanking plug, black polyamide	
Cat. no.	***Thread***
157122	M12 x 1,5 mm
157124	M16 x 1,5 mm
157126	M20 x 1,5 mm
157128	M25 x 1,5 mm
157130	M32 x 1,5 mm
157132	M40 x 1,5 mm
157134	M50 x 1,5 mm
157136	M63 x 1,5 mm

Ceag Reducing rings, black polyamide		
Cat. no.	***Outside thread***	***Inside thread***
157202	M20 x 1,5 mm	M16 x 1,5 mm
157204	M25 x 1,5 mm	M20 x 1,5 mm
157206	M32 x 1,5 mm	M20 x 1,5 mm
157208	M32 x 1,5 mm	M25 x 1,5 mm
157210	M40 x 1,5 mm	M25 x 1,5 mm
157212	M40 x 1,5 mm	M32 x 1,5 mm
157214	M50 x 1,5 mm	M32 x 1,5 mm
157216	M50 x 1,5 mm	M40 x 1,5 mm
157218	M63 x 1,5 mm	M40 x 1,5 mm
157220	M63 x 1,5 mm	M50 x 1,5 mm

MCT Brattberg, RGS frames marine primer

Cat. no.	Internal sizes	Outside sizes	Type
159002	100 x 120 mm	121,0 x 140,5 x 60 mm	RGS2P
159004	160 x 120 mm	179,5 x 140,5 x 60 mm	RGS4P
159022	220 x 120 mm	238,0 x 140,5 x 60 mm	RGS6P
159046	280 x 120 mm	296,5 x 140,5 x 60 mm	RGS8P

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

MCT Brattberg, Filling components

Cat. no.	Description	Type	Fig.
159222	Compression plate EMP	COMPPLA 3	1
159224	Endpacking, hot galvanized	STG1F	2
159228	Endpacking, stainless steel	STG1S	2
159226	Endpacking, hot galvanized	STG2F	3
159230	Endpacking, stainless steel	STG2S	3
159232	Presswedge endpacking, hot galvanized	PTG120F	4
159234	Presswedge endpacking, stainless steel	PGT120S	4
159235	Stayplate, galvanised	STAYPLA1T	5
159236	Stayplate, stainless steel	STAYPLA2T	5
159238	Sealing strip 60 x 1,5 mm	SEALSTR1	6
159240	Sealing strip 45 x 8 mm	SEALSTR2	7
159242	Lubricant	LUBRICANT	8

Fig. 1

Fig. 2

Fig. 3

MCT Brattberg, Mounting components

Cat. no.	Description	Type	Fig.
159244	Endpacking puller	ENDPACKP	1
159246	Packing tool	PACKINGTOOL	2
159248	Blockselecter tool	BLOCKSEL1	3

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

MCT Brattberg, Spare blocks

Cat. no.	Description	Dimensions	Type	Fig.
159260	Spare block lycron strip	5 x 120 mm	24x5/0	1
159262	Spare block lycron strip	10 x 120 mm	12x10/0	2
159264	Spare block lycron	15 x 15 mm	15/0	3
159266	Spare block lycron	20 x 20 mm	20/0	4
159268	Spare block lycron	30 x 30 mm	30/0	5
159270	Spare block lycron	40 x 40 mm	40/0	6
159272	Spare block lycron	60 x 60 mm	60/0	7
159274	Spare block lycron	90 x 30 mm	90x30/0	8

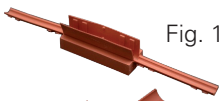


Fig. 1

Fig. 2

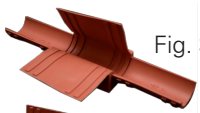


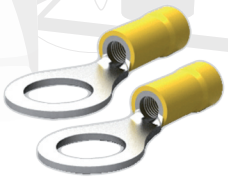
Fig. 3

Fig. 4

Fig. 5

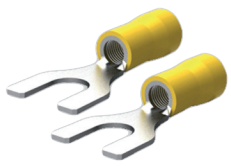
MCT Brattberg, AddBlocks

Cat. no.	Description	Cable or Pipe dimensions	Type	Fig.
159432	Half insert block lycron 20 mm	3,5 - 8,5 mm	20-04-08	1
159434	Half insert block lycron 20 mm	8,5 - 13,5 mm	20-09-13	1
159436	Half insert block lycron 30 mm	13,5 - 18,5 mm	30-14-18	2
159438	Half insert block lycron 30 mm	18,5 - 23,5 mm	30-19-23	2
159440	Half insert block lycron 40 mm	23,5 - 28,5 mm	40-24-28	3
159442	Half insert block lycron 40 mm	28,5 - 33,5 mm	40-29-33	3
159444	Half insert block lycron 60 mm	33,5 - 38,5 mm	60-34-38	4
159446	Half insert block lycron 60 mm	38,5 - 43,5 mm	60-39-43	4
159448	Half insert block lycron 60 mm	43,5 - 49,5 mm	60-44-48	4
159450	Half insert block lycron 90 mm	49,5 - 59,5 mm	90-50-58	5
159452	Half insert block lycron 90 mm	59,5 - 69,5 mm	90-60-68	5



Insulated solderless Ring-terminals

Cat. no.	Impa no.	Wire range	Bolt hole	Colour
160012	794701	0,25 - 1,65 mm²	M3	red
160018	794702	0,25 - 1,65 mm²	M4	red
160024	794703	0,25 - 1,65 mm²	M5	red
160030		0,25 - 1,65 mm²	M6	red
160036		0,25 - 1,65 mm²	M8	red
160062		1,04 - 2,63 mm²	M3	blue
160068	794704	1,04 - 2,63 mm²	M4	blue
160074	794705	1,04 - 2,63 mm²	M5	blue
160080	794706	1,04 - 2,63 mm²	M6	blue
160086	794707	1,04 - 2,63 mm²	M8	blue
160092		1,04 - 2,63 mm²	M10	blue
160112	794708	2,63 - 6,64 mm²	M4	yellow
160118	794709	2,63 - 6,64 mm²	M5	yellow
160124	794710	2,63 - 6,64 mm²	M6	yellow
160130	794711	2,63 - 6,64 mm²	M8	yellow
160136	794712	2,63 - 6,64 mm²	M10	yellow

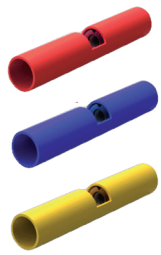


Insulated solderless Spade-terminals

Cat. no.	Impa no.	Wire range	Bolt hole	Colour
160162	794716	0,25 - 1,65 mm²	M3	red
160163	794717	0,25 - 1,65 mm²	M4	red
160164	794718	0,25 - 1,65 mm²	M5	red
160212		1,04 - 2,63 mm²	M3	blue
160218	794719	1,04 - 2,63 mm²	M4	blue
160224	794720	1,04 - 2,63 mm²	M5	blue
160230			M6	blue
160262	794721	2,63 - 6,64 mm²	M4	yellow
160268	794536	2,63 - 6,64 mm²	M5	yellow
160274	794723	2,63 - 6,64 mm²	M6	yellow
160280		2,63 - 6,64 mm²	M8	yellow

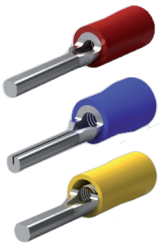
Insulated solderless Hook-terminals

Cat. no.	Wire range	Bolt hole	Colour
160312	0,25 - 1,65 mm²	M4	red
160318	1,04 - 2,63 mm²	M4	blue
160324	2,63 - 6,64 mm²	M5	yellow



Insulated solderless Butt Spice-connectors

Cat. no.	Impa no.	Wire range	Colour
160412	794575	0,25 - 1,65 mm²	red
160418		1,04 - 2,63 mm²	blue
160424	794576	2,63 - 6,64 mm²	yellow



Insulated solderless Pin-terminals

Cat. no.	Impa no.	Wire range	Pin lenght	Colour
160362	794581	0,25 - 1,65 mm²	6,7 mm	red
160368	794582	1,04 - 2,63 mm²	6,7 mm	blue
160374	794583	2,63 - 6,64 mm²	10,0 mm	yellow

Insulated solderless Receptable Disconnect female

Cat. no.	Wire range	Dia hole	Colour
160462	0,25 - 1,65 mm²	3,96 mm	red
160368	1,04 - 2,63 mm²	3,96 mm	blue
160474	1,04 - 2,63 mm²	4,96 mm	blue
160480	2,63 - 6,64 mm²	5,00 mm	yellow

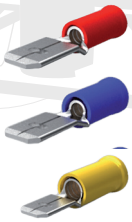
Insulated solderless Bullet Disconnect male

Cat. no.	Wire range	Dia hole	Colour
160512	0,25 - 1,65 mm²	3,96 mm	red
160518	1,04 - 2,63 mm²	3,96 mm	blue
160524	1,04 - 2,63 mm²	4,96 mm	blue
160530	2,63 - 6,64 mm²	5,00 mm	yellow

INSULATED CABLE SHOES

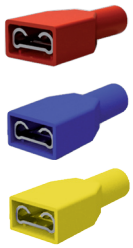
Insulated solderless Disconnect receptacles

Cat. no.	Impa no.	Wire range	Size	Colour
160562	794545	0,25 - 1,65 mm²	2,8 x 0,5 mm	red
160568	794546	0,25 - 1,65 mm²	4,8 x 0,8 mm	red
160574	794547	0,25 - 1,65 mm²	6,3 x 0,8 mm	red
160612	794548	1,04 - 2,63 mm²	4,8 x 0,8 mm	blue
160618	794549	1,04 - 2,63 mm²	6,3 x 0,8 mm	blue
160662	794550	2,63 - 6,64 mm²	6,3 x 0,8 mm	yellow
160668	794551	2,63 - 6,64 mm²	9,5 x 1,2 mm	yellow



Insulated solderless Disconnect male (Tab)

Cat. no.	Wire range	Size	Colour
160712	0,25 - 1,65 mm²	6,3 x 0,8 mm	red
160718	1,04 - 2,63 mm²	6,3 x 0,8 mm	blue
160724	2,63 - 6,64 mm²	6,3 x 0,8 mm	yellow

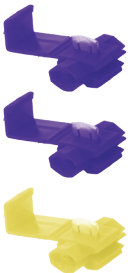


Insulated solderless Fully-insulated Disconnect receptacles

Cat. no.	Wire range	Size	Colour
160762	0,25 - 1,65 mm²	6,3 x 0,8 mm	red
160768	1,04 - 2,63 mm²	6,3 x 0,8 mm	blue
160774	2,63 - 6,64 mm²	6,3 x 0,8 mm	yellow

Insulated solderless Piggy Back Disconnect receptacles

Cat. no.	Wire range	Size	Colour
160812	0,25 - 1,65 mm²	6,3 x 0,8 mm	red
160818	1,04 - 2,63 mm²	6,3 x 0,8 mm	blue
160824	2,63 - 6,64 mm²	6,3 x 0,8 mm	yellow



Insulated Cable-connectors Self-stripping

Cat. no.	Wire range	Size	Colour
161012	0,5 - 0,75 mm²		red
161018	0,7 - 2,0 mm²		blue
16124	3,0 - 4,5 mm²		yellow

AMP Insulated solderless Ring-terminals, type PIDG

Cat. no.	Impa no.	Wire range	Bolt hole	Colour	Box of
161254	794702	0,25 - 1,65 mm²	M4	red	100 pcs
161256	794703	0,25 - 1,65 mm²	M5	red	100 pcs
161258		0,25 - 1,65 mm²	M6	red	100 pcs
161260		1,04 - 2,63 mm²	M3 - 3,5	blue	100 pcs
161262	794704	1,04 - 2,63 mm²	M4	blue	100 pcs
161264	794705	1,04 - 2,63 mm²	M5	blue	100 pcs
161266	794706	1,04 - 2,63 mm²	M6	blue	100 pcs
161268	794707	1,04 - 2,63 mm²	M8	blue	100 pcs
161270	794708	2,63 - 6,64 mm²	M4	yellow	50 pcs
161272	794709	2,63 - 6,64 mm²	M5	yellow	50 pcs
161274	794710	2,63 - 6,64 mm²	M6	yellow	50 pcs
161276	794711	2,63 - 6,64 mm²	M8	yellow	50 pcs
161278	794712	2,63 - 6,64 mm²	M10	yellow	50 pcs

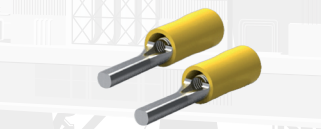
AMP Insulated solderless Spade-terminals, type PIDG

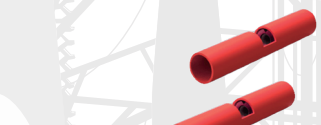
Cat. no.	Impa no.	Wire range	Bolt hole	Colour	Box of
161280		0,25 - 1,65 mm²	M2,6 x 5,5 mm	red	100 pcs
161282	794716	0,25 - 1,65 mm²	M3 - 3,5 x 6,4 mm	red	100 pcs
161284	794717	0,25 - 1,65 mm²	M 4 x 7,1 mm	red	100 pcs
161286	794718	0,25 - 1,65 mm²	M 5 x 9,5 mm	red	100 pcs
161288		1,04 - 2,63 mm²	M4 x 6,4 mm	blue	100 pcs
161290	794719	1,04 - 2,63 mm²	M4 x 7,5 mm	blue	100 pcs
161292		1,04 - 2,63 mm²	M4 x 9,5 mm	blue	100 pcs
161294	794720	1,04 - 2,63 mm²	M5 x 9,5 mm	blue	100 pcs
161296	794721	2,63 - 6,64 mm²	M4 x 8,0 mm	yellow	50 pcs
161298	794723	2,63 - 6,64 mm²	M6 x 13,5 mm	yellow	50 pcs

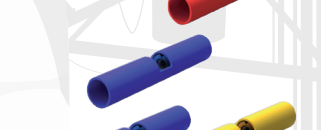
AMP Insulated solderless Spade-terminals, Flanged, type PIDG

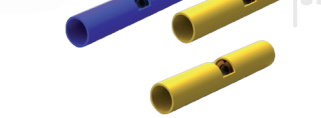
Cat. no.	Wire range	Bolt hole	Colour	Box of
161300	1,04 - 1,65 mm²	M4 x 7,5 mm	blue	100 pcs
161302	1,04 - 2,63 mm²	M5 x 7,5 mm	blue	100 pcs
161304	2,63 - 6,64 mm²	M5 x 10,6 mm	yellow	50 pcs

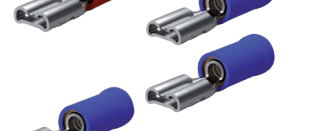
AMP INSULATED CABLE SHOES

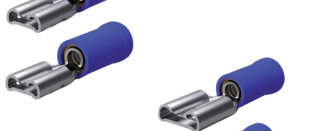












AMP Insulated solderless Pin-terminals, type PIDG

Cat. no.	Impa no.	Wire range	Pin length	Colour	Box of
161306	794581	0,25 - 1,65 mm²	6,7 mm	red	100 pcs
161308		0,25 - 1,65 mm²	9,9 mm	red	100 pcs
161310	794582	1,04 - 2,63 mm²	6,7 mm	blue	100 pcs
161312		1,04 - 2,63 mm²	9,9 mm	blue	100 pcs
161314		1,04 - 2,63 mm²	15,2 mm	blue	100 pcs
161316	794582	2,63 - 6,64 mm²	10,0 mm	yellow	50 pcs
161318		2,63 - 6,64 mm²	15,2 mm	yellow	50 pcs

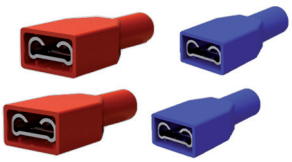
AMP Insulated solderless Butt Splice-connectors, type PIDG

Cat. no.		Wire range	Size	Colour
161320	794575	0,25 - 1,65 mm²	red	100 pcs
161322		1,04 - 2,63 mm²	blue	50 pcs
161324	794576	2,63 - 6,64 mm²	yellow	25 pcs

AMP Insulated solderless Disconnect receptacles, type PIDG

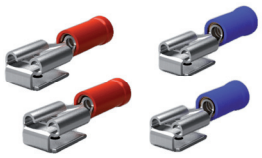
Cat. no.	Impa no.	Wire range	Size	Colour	Box of
161326		0,25 - 1,65 mm²	2,8 x 0,3 mm	red	50 pcs
161328		0,25 - 1,65 mm²	2,8 x 0,4 mm	red	50 pcs
161330		0,25 - 1,65 mm²	2,8 x 0,5 mm	red	50 pcs
161332	794545	0,25 - 1,65 mm²	2,8 x 0,8 mm	red	50 pcs
161334		0,25 - 1,65 mm²	4,8 x 0,5 mm	red	50 pcs
161336	794546	0,25 - 1,65 mm²	4,8 x 0,8 mm	red	50 pcs
161338	794547	0,25 - 1,65 mm²	6,3 x 0,8 mm	red	100 pcs
161340		1,04 - 2,63 mm²	2,8 x 0,4 mm	blue	100 pcs
161342		1,04 - 2,63 mm²	2,8 x 0,5 mm	blue	50 pcs
161344		1,04 - 2,63 mm²	4,8 x 0,5 mm	blue	100 pcs
161346	794548	1,04 - 2,63 mm²	4,8 x 0,8 mm	blue	100 pcs
161348	794549	1,04 - 2,63 mm²	6,3 x 0,8 mm	blue	100 pcs
161350		1,04 - 2,63 mm²	8,0 x 0,8 mm	blue	100 pcs
161352	794550	2,63 - 6,64 mm²	6,3 x 0,8 mm	yellow	50 pcs

AMP INSULATED CABLE SHOES



AMP Insulated solderless Fully-insulated Disconnect receptacles, type PIDG

Cat. no.	Wire range	Bolt hole	Colour	Box of
161354	0,25 - 1,65 mm²	6,3 x 0,8 mm	red	100 pcs
161356	1,04 - 2,63 mm²	6,3 x 0,8 mm	blue	50 pcs

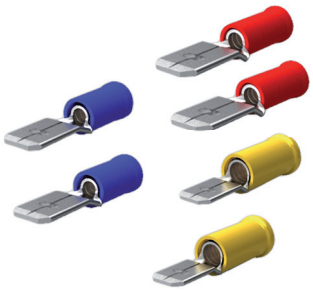


Insulated solderless Piggy Back Disconnect receptacles, type PIDG

Cat. no.	Wire range	Bolt hole	Colour	Box of
161358	0,25 - 1,65 mm²	6,3 x 0,8 mm	red	50 pcs
161360	1,04 - 2,63 mm²	6,3 x 0,8 mm	blue	50 pcs

AMP Insulated solderless Flag Disconnect receptacles, type PIDG

Cat. no.	Wire range	Bolt hole	Colour	Box of
161362	1,04 - 2,63 mm²	6,3 x 0,8 mm	blue	50 pcs



AMP Insulated solderless Disconnect male (Tab), type PIDG

Cat. no.	Wire range	Bolt hole	Colour	Box of
161364	0,25 - 1,65 mm²	6,3 x 0,8 mm	red	50 pcs
161366	1,04 - 2,63 mm²	6,3 x 0,8 mm	blue	50 pcs
161368	2,63 - 6,64 mm²	6,3 x 0,8 mm	yellow	50 pcs

fig. 1

fig. 2

Accessories for Insulated Cable-terminals

Cat. no.	Impa no.	Description	Fig.
161106	611732	Box, containing a small assorted insulated terminals drimping crimping tool	1
161112	611732	Box, containing a large assorted insulated terminals including crimping tool	2
161206	611730	Crimping tool 0,75 - 6 mm²	3
161212	611730	AMP crimping tool 0,50 - 6,00 mm², type Super Champ II	4
161218		Crimping tool 0,5 - 6,0 mm², ratchet-type	5

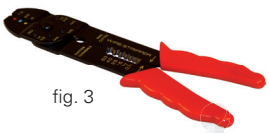


fig. 3

fig. 4

fig. 5

CORD-END SLEEVES

Non-insulated Cord-end Sleeves

Cat. no.	Wire range	Qty bag
161406	0,5 mm²	100 pcs
161410	0,75 mm²	100 pcs
161414	1,00 mm²	100 pcs
161418	1,50 mm²	100 pcs
161422	2,50 mm²	100 pcs
161426	4,00 mm²	100 pcs
161430	6,00 mm²	100 pcs
161434	10,00 mm²	100 pcs
161438	16,00 mm²	100 pcs

Insulated Cord-end Sleeves (Bootlace ferrules)

Cat. no.	Wire range	Colour	Qty bag
161506	0,50 mm²	white	100 pcs
161510	0,75 mm²	blue	100 pcs
161514	1,00 mm²	red	100 pcs
161518	1,50 mm²	black	100 pcs
161522	2,50 mm²	grey	100 pcs
161526	4,00 mm²	orange	100 pcs
161530	6,00 mm²	green	100 pcs
161534	10,00 mm²	brown	100 pcs
161538	16,00 mm²	ivory	100 pcs

Accessories for Cord-end Sleeves

Cat. no.	Description
161580	Box, containing insulated Cord-end sleeves 0,5-2,5 mm²
161592	Crimping tool for Bootlace ferrules 0,50-16 mm²

Soldering Ring-terminals, non-insulated

Cat. no.	Impa no.	Wire range	Bolt hole
161600		0,75 mm²	M3
161606	794651	1,5 mm²	M3
161610	794652	1,5 mm²	M4
161614	794653	1,5 mm²	M5
161618	794654	2,5 mm²	M4
161622	794655	2,5 mm²	M5
161626	794656	2,5 mm²	M6
161630	794657	2,5 mm²	M8
161632		4,0 mm²	M4
161634	794658	6,0 mm²	M4
161638	794659	6,0 mm²	M5
161642	794660	6,0 mm²	M6
161646	794501	6,0 mm²	M8
161650		6,0 mm²	M10
161654	794502	10,0 mm²	M6
161658	794503	10,0 mm²	M8
161662	794504	10,0 mm²	M10
161666		16,0 mm²	M6
161670	794506	16,0 mm²	M8
161674	794507	16,0 mm²	M10
161678		16,0 mm²	M12
161682	794509	25,0 mm²	M6
161686	794511	25,0 mm²	M8
161690	794512	25,0 mm²	M10
161694		25,0 mm²	M12
161698		35,0 mm²	M6
161702	794514	35,0 mm²	M8
161706		35,0 mm²	M10
161710		35,0 mm²	M12
161714		50,0 mm²	M6
161718		50,0 mm²	M8
161722		50,0 mm²	M10
161726		50,0 mm²	M12
161730		50,0 mm²	M14

continue on next page

Soldering Ring-terminals, non-insulated

continuation

Cat. no.	Wire range	Bolt hole
161734	70,0 mm²	M8
161738	70,0 mm²	M10
161742	70,0 mm²	M12
161746	70,0 mm²	M14
161750	70,0 mm²	M16
161754	95,0 mm²	M10
161758	95,0 mm²	M12
161762	95,0 mm²	M14
161766	95,0 mm²	M16
161770	120,0 mm²	M10
161774	120,0 mm²	M12
161778	120,0 mm²	M14
161782	120,0 mm²	M16
161786	150,0 mm²	M12
161790	150,0 mm²	M14
161794	150,0 mm²	M16
161798	185,0 mm²	M16
161802	240,0 mm²	M16
161806	300,0 mm²	M16

Klauke Solderless Ring-terminals, non-insulated

Cat. no.	Impa no.	Wire range	Bolt hole	Type
161812	794659	6,0 mm²	M5	1R/5
161813	794660	6,0 mm²	M6	1R/6
161814	794661	6,0 mm²	M8	1R/8
161815	794662	6,0 mm²	M10	1R/10
161816		6,0 mm²	M12	1R/12
161817		10,0 mm²	M4	2R/4
161818	794663	10,0 mm²	M5	2R/5
161819	794505	10,0 mm²	M6	2R/6
161820	794665	10,0 mm²	M8	2R/8
161821	794666	10,0 mm²	M10	2R/10
161822		10,0 mm²	M12	2R/12

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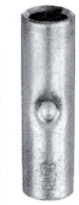
Klauke Solderless Ring-terminals, non-insulated				
Cat. no.	*Impa no.*	*Wire range*	*Bolt hole*	*Type*
161823		16,0 mm²	M5	3R/5
161824		16,0 mm²	M6	3R/6
161825		16,0 mm²	M8	3R/8
161826	794508	16,0 mm²	M10	3R/10
161827		16,0 mm²	M12	3R/12
161828		25,0 mm²	M5	4R/5
161829	794513	25,0 mm²	M6	4R/6
161830	794511	25,0 mm²	M8	4R/8
161831	794512	25,0 mm²	M10	4R/10
161832		25,0 mm²	M12	4R/12
161833		25,0 mm²	M14	4R/14
161834		35,0 mm²	M6	5R/6
161835		35,0 mm²	M8	5R/8
161836	794514	35,0 mm²	M10	5R/10
161837		35,0 mm²	M12	5R/12
161838		35,0 mm²	M14	5R/14
161839		35,0 mm²	M16	5R/16
161840		50,0 mm²	M6	6R/6
161841		50,0 mm²	M8	6R/8
161842		50,0 mm²	M10	6R/10
161843		50,0 mm²	M12	6R/12
161844		50,0 mm²	M14	6R/14
161845		50,0 mm²	M16	6R/16
161846		50,0 mm²	M20	6R/20
161847		70,0 mm²	M6	7R/6
161848		70,0 mm²	M8	7R/8
161849		70,0 mm²	M10	7R/10
161850		70,0 mm²	M12	7R/12
161851		70,0 mm²	M14	7R/14
161852		70,0 mm²	M16	7R/16
161853		70,0 mm²	M20	7R/20
161854		95,0 mm²	M8	8R/8
161855		95,0 mm²	M10	8R/10
161856		95,0 mm²	M12	8R/12
161857		95,0 mm²	M14	8R/14
161858		95,0 mm²	M16	8R/16
161859		95,0 mm²	M20	8R/20

continue on next page

Klauke Solderless Ring-terminals, non-insulated

continuation

Cat. no.	Wire range	Bolt hole	Type
161860	120,0 mm²	M8	9R/8
161861	120,0 mm²	M10	9R/10
161862	120,0 mm²	M12	9R/12
161863	120,0 mm²	M14	9R/14
161864	120,0 mm²	M16	9R/16
161865	120,0 mm²	M20	9R/20
161866	150,0 mm²	M8	10R/8
161867	150,0 mm²	M10	10R/10
161868	150,0 mm²	M12	10R/12
161869	150,0 mm²	M14	10R/14
161870	150,0 mm²	M16	10R/16
161871	150,0 mm²	M20	10R/20
161872	185,0 mm²	M8	11R/8
161873	185,0 mm²	M10	11R/10
161874	185,0 mm²	M12	11R/12
161875	185,0 mm²	M14	11R/14
161876	185,0 mm²	M16	11R/16
161877	185,0 mm²	M20	11R/20
161878	240,0 mm²	M10	12R/10
161879	240,0 mm²	M12	12R/12
161880	240,0 mm²	M14	12R/14
161881	240,0 mm²	M16	12R/16
161882	240,0 mm²	M20	12R/16
161883	300,0 mm²	M12	13R/12
161884	300,0 mm²	M14	13R/14
161885	300,0 mm²	M16	13R/16
161886	300,0 mm²	M20	13R/20
161887	400,0 mm²	M12	14R/12
161888	400,0 mm²	M14	14R/14
161889	400,0 mm²	M16	14R/16
161890	400,0 mm²	M20	14R/20

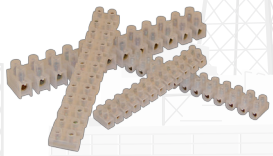


Solderless Connectors, non-insulated		
Cat. no.	**Impa no.**	**Wire range**
161908		4,0 mm²
161912	794673	6,0 mm²
161916	794674	10,0 mm²
161920		16,0 mm²
161924		25,0 mm²
161928		35,0 mm²
161932		50,0 mm²
161936		70,0 mm²
161940		95,0 mm²
161944		120,0 mm²
161948		150,0 mm²
161952		185,0 mm²
161956		240,0 mm²
161960		300,0 mm²

Tools for Non-insulated Crimp Cable-terminals	
Cat. no.	**Description**
162016	Crimping tool 5.5 - 38 mm²
162022	Crimping tool 8 - 80 mm²

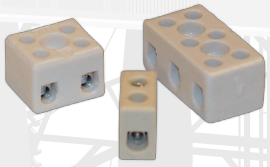
Klauke Tools for Non-insulated Crimp Cable-terminals		
Cat. no.	**Description**	**Type**
162012	Crimping tool 0,75 - 16 mm²	K2
162018	Crimping tool 6 - 50 mm²	K5
162024	Crimping tool 10 - 120 mm²	K06
162030	Crimping tool 50 - 120 mm²	K6
162036	Crimping tool 120 - 240 mm²	K7

Hydraulic Crimp Tool for Non-insulated Crimp Cable-terminals		
Cat. no.	**Impa no.**	**Description**
162106	611734	Hydraulic Cable Shoe Pliers, including inserts 16 till 300 mm²



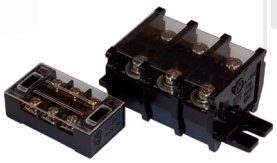
Nylon terminal connectors (seperable)

Cat. no.	Impa no.	Wire range	Amperes	poles
163112	794636	4 mm²	10	12 - poles
163118	794637	6 mm²	20	12 - poles
163124	794638	10 mm²	25	12 - poles
163130	794639	16 mm²	35	12 - poles
163136	794640	25 mm²	50	12 - poles



Porcelain connectors

Cat. no.	Wire range	poles
163272	4 mm²	1 - pole
163278	4 mm²	2 - pole
163284	4 mm²	3 - pole



Terminal blocks, 3-pole

Cat. no.	Amperes	Size mm
163306	35	56 x 31 x 19
163312	60	96 x 51 x 39
163318	100	123 x 65 x 39
163324	200	160 x 81 x 48

Wire connectors

Cat. no.	Impa no.	Wire range	Type
163406		2 - 4,5 mm²	screw
163414		3 - 12,5 mm²	screw
163422		12 - 24 mm²	screw
163512		2 x 2,5 mm²	plug-in
163516		3 x 2,5 mm²	plug-in
163520		4 x 2,5 mm²	plug-in
163524		5 x 2,5 mm²	plug-in
163528		8 x 2,5 mm²	plug-in

Aligator clips

Cat. no.	Impa no.	Description	Size mm
163612	794881	Red, insulated	32 mm
163616	794881	Black, insulated	32 mm
163622	794882	Red, insulated	60 mm
163626	794882	Black, insulated	60 mm
163632		Red, insulated	80 mm
163636		Black, insulated	80 mm
163672	794884	Red, non-insulated	60 mm
163676	794884	Black, non-insulated	60 mm
163682		Red, non-insulated	80 mm
163686		Black, non-insulated	80 mm

Welding cable connector, male and female

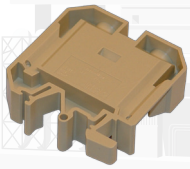
Cat. no.	Impa no.	Description	mm²
164012		male / female	25 mm²
164018	794761	male / female	35 / 50 mm²
164024	794762	male / female	50 / 70 mm²
164030	794763	male / female	70 / 95 mm²
164036	794764	male / female	95 / 120 mm²

Electrode holder

Cat. no.	Impa no.	Description	Type
164112	851031	Electrode holder 300 Amp.	Grip-type
164124	851035	Electrode holder 400 Amp.	Angle-type

Earth clamp

Cat. no.	Impa no.	Description
164172	851042	Earth connection-clamp for welding



Terminal blocks 2,5 till 35 mm² for TS32 and TS35 rail
Terminal blocks 70/95 mm² only for TS32 rail

Cat. no.	Size	Type	Thickness
165012	2,5 mm²	SAK 2.5 EN	6,0 mm
165018	4 mm²	SAK 4 EN	6,5 mm
165024	6 mm²	SAK 6 EN	8,0 mm
165030	10 mm²	SAK 10 EN	10,0 mm
165036	16 mm²	SAK 16 EN	12,0 mm
165042	35 mm²	SAK 35 EN	16,0 mm
165048	70 mm²	SAK 70	22,0 mm
165054	95 mm²	SAK 95	28,0 mm

End barrier

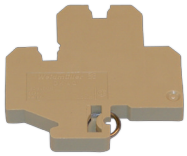
Cat. no.	For	Thickness
165112	SAK 2.5 EN	1,5 mm
165118	SAK 4/6/10 EN	1,5 mm
165124	SAK 16 EN	3,0 mm
165130	SAK 35 EN	3,0 mm
165136	SAK 70	4,0 mm
165142	SAK 95	3,0 mm

Inter barrier

Cat. no.	For	Thickness
165162	SAK 2.5 EN	1,5 mm
165168	SAK 4/6/10 EN	1,5 mm
165130	SAK 16 EN	3,0 mm
165180	SAK 35 EN	3,0 mm

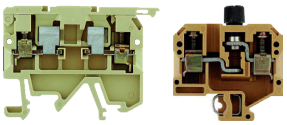
Line up connector for SAK 2,5 till 10 EN

Cat. no.	For	Type
165212	SAK 2.5 EN	Q10
165218	SAK 4 EN	Q10
165224	SAK 6 EN	Q10
165230	SAK 10 EN	Q10

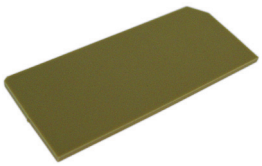


Stack Terminal blocks 4 mm² for TS32 rail			
Cat. no.	mm²	For	Thickness
165262	4 mm²	DK 4 Q	6,0 mm

End barrier for DK 4 Q		
Cat. no.	mm²	Thickness
165274	4 mm²	1,5 mm

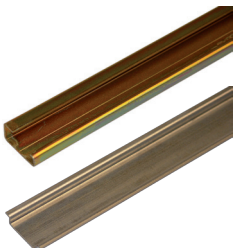


Fuse Terminal blocks for glass fuses 20 x 5 mm				
Cat. no.	mm²	For rail	Type	Thickness
165306	4 mm²	TS32 and TS35	ASK 1	8,0 mm
165312	10 mm²	TS32	SAKS 1	13,0 mm

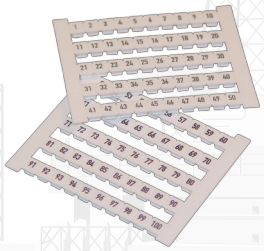


End barrier for ASK 1 / SAKS 1		
Cat. no.	For	Thickness
165324	ASK 1	1,5 mm
165330	SAKS 1	2,5 mm

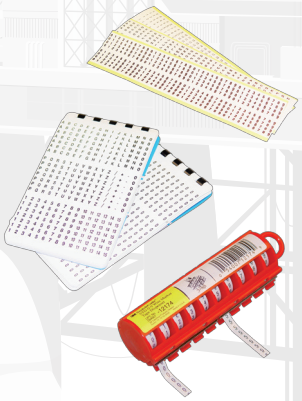
End brackets		
Cat. no.	For	Type
165342	TS32 rail	EWK 1
165348	TS35 rail	EW 35



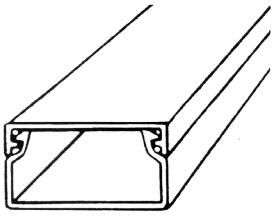
Mounting rails		
Cat. no.	Description	Type
165512	Mounting rail, length of 1 mtr	TS32
165524	DIN Mounting rail, length of 1 mtr	TS35

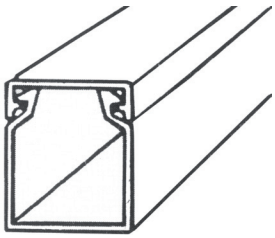


Code markers for Terminal blocks	
Cat. no.	***Description***
165612	Markers 1 - 50
165618	Markers 51 - 100



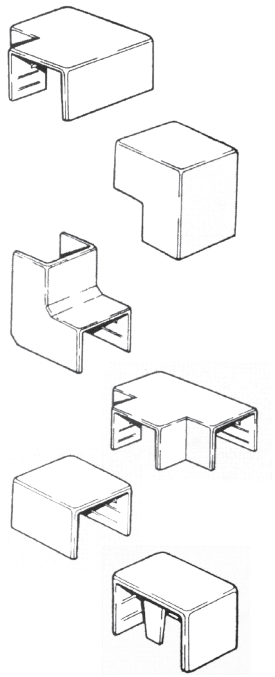
Code markers for Terminal blocks		
Cat. no.	***Impa no.***	***Description***
165706	794801	Sheets, 0 till 9
165712		Sheets, 1 till 34
165718	794803	Sheets, A till Z
165726	794802	Booklet, 0 till 9
165732	794804	Booklet, A till Z
165752	Scotch marking tape dispencer 0 till 9	
165760	Scotch spare marking tape 0 till 9, set of 10pcs for dispenser	





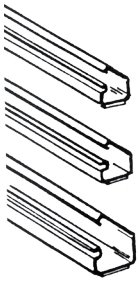
PVC Cable trunking

Cat. no.	Sizes W x H mm	Colour	Length of
166212	15 x 17 mm	White	2 mtr
166218	25 x 17 mm	White	2 mtr
166224	25 x 25 mm	White	2 mtr
166226	25 x 38 mm	White	3 mtr
166230	25 x 40 mm	White	2 mtr
166236	40 x 25 mm	White	2 mtr
166242	40 x 40 mm	White	2 mtr
166248	40 x 60 mm	White	2 mtr
166254	60 x 40 mm	White	2 mtr
166260	60 x 60 mm	White	2 mtr
166266	90 x 60 mm	White	2 mtr
166272	110 x 60 mm	White	2 mtr



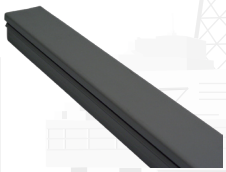
PVC Cable trunking Fittings, White

		For trunking
Cat. no.	Description	Size W x H mm
166506	Flat Angle	25 x 17 mm
166508	Flat Angle	25 x 38 mm
166510	External Angle	25 x 17 mm
166512	External Angle	25 x 38 mm
166514	Internal Angle	25 x 17 mm
166516	Internal Angle	25 x 38 mm
166518	Flat Tee	25 x 17 mm
166520	Flat Tee	25 x 38 mm
166522	Coupling	25 x 17 mm
166524	Coupling	25 x 38 mm
166526	Stop End	25 x 17 mm
166528	Stop End	25 x 38 mm



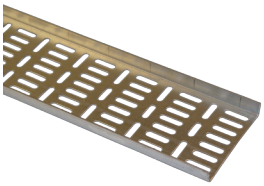
Adhesive mini pvc cable trunking

Cat. no.	Size W x H mm	Colour	Length of
166612	10 x 5 mm	White	2 mtr
166618	10 x 10 mm	White	2 mtr
166624	15 x 10 mm	White	2 mtr
166630	20 x 10 mm	White	2 mtr

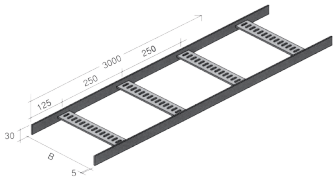


PVC Cable trunking, closed type			
Cat. no.	Size W x H mm	Colour	Length of
166700	15 x 15 mm	Grey	2 mtr
166706	25 x 20 mm	Grey	2 mtr
166712	25 x 30 mm	Grey	2 mtr
166716	25 x 40 mm	Grey	2 mtr
166728	40 x 30 mm	Grey	2 mtr
166732	40 x 40 mm	Grey	2 mtr
166736	40 x 60 mm	Grey	2 mtr
166744	60 x 40 mm	Grey	2 mtr
166748	60 x 60 mm	Grey	2 mtr
166752	60 x 80 mm	Grey	2 mtr
166756	80 x 40 mm	Grey	2 mtr
166760	80 x 60 mm	Grey	2 mtr
166768	80 x 80 mm	Grey	2 mtr

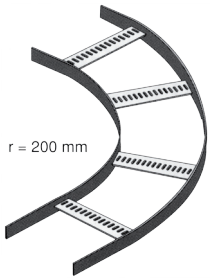
PVC Cable trunking, open slotted type			
Cat. no.	Size W x H mm	Colour	Length of
166800	15 x 17 mm	Grey	2 mtr
166806	25 x 20 mm	Grey	2 mtr
166812	25 x 30 mm	Grey	2 mtr
166816	25 x 40 mm	Grey	2 mtr
166820	25 x 60 mm	Grey	2 mtr
166824	25 x 80 mm	Grey	2 mtr
166828	40 x 30 mm	Grey	2 mtr
166832	40 x 40 mm	Grey	2 mtr
166836	40 x 60 mm	Grey	2 mtr
166840	40 x 80 mm	Grey	2 mtr
166844	60 x 40 mm	Grey	2 mtr
166848	60 x 60 mm	Grey	2 mtr
166852	60 x 80 mm	Grey	2 mtr
166856	80 x 40 mm	Grey	2 mtr
166860	80 x 60 mm	Grey	2 mtr
166864	80 x 80 mm	Grey	2 mtr
166868	120 x 40 mm	Grey	2 mtr
166872	120 x 60 mm	Grey	2 mtr
166876	120 x 80 mm	Grey	2 mtr



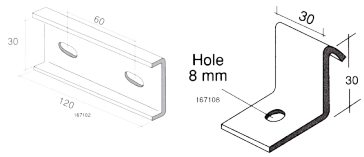
Cable tray, galvanized			
Cat. no.	*Impa no.*	*Size W x H mm*	*Length of*
166912	794841	50 x 15 mm	2 mtr
166918	794842	75 x 15 mm	2 mtr
166924	794843	100 x 15 mm	2 mtr
166930	794844	150 x 15 mm	2 mtr
166936		200 x 15 mm	2 mtr
166942		250 x 15 mm	2 mtr
166948		300 x 15 mm	2 mtr



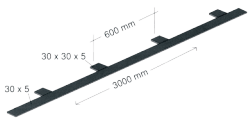
Laddertray, galvanized		
Cat. no.	*Sizes W x H mm*	*Length of*
167012	100 x 30 mm	3 mtr
167018	150 x 30 mm	3 mtr
167024	200 x 30 mm	3 mtr
167030	300 x 30 mm	3 mtr



Flat Elbow 90⁰ for Laddertray, galvanized	
Cat. no.	*Sizes W x H mm*
167072	100 x 30 mm
167078	150 x 30 mm
167084	200 x 30 mm
167090	300 x 30 mm



Accessoiries for Laddertray, galvanized	
Cat. no.	*Description*
167102	Splice connector and coupling set
167108	Fixing clamp



Flat bar wit welding strips, galvanized		
Cat. no.	*Description*	*Length of*
167120	Flat bar 30 x 5 mm with welding strips	3 mtr

fig. 1

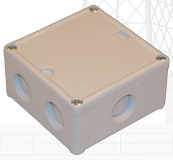


fig. 2

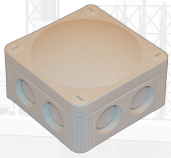


fig. 3

PVC, junction box

Cat. no.	Impa no.	Dimensions	Description	Fig.
167512		ø 55 x 24 mm	IP00, with 4 terminals 2,5 mm²	1
167518		95 x 95 x 45 mm	IP54, with entry 7xPG16	2
167520	794833	95 x 95 x 45 mm	IP54, with entry 7xPG16 including 4 cable glands	2
167524		85 x 85 x 51 mm	IP66, with entry 8xPG16 including 3 cable glands	3
167532	794835	110 x 110 x 66 mm	IP66, with entry 8xPG16	3

fig. 1

fig. 2

Japanese junction box, IP56

Cat. no.	Impa no.	Description	Fig.
167546	794831	Cast Iron Round type 1, 0= with 2 cable glands	1
167552	794832	Cast Iron Round type 2, =0= with 4 cable glands	1
167548		Phenol Resin Square type 1M, 0= with 2 cable glands	2
167554	794833	Phenol Resin Square type 2M, =0= with 4 cable glands	2

Japanese junction box, IP56

Cat. no.	Impa no.	Gland position	Cable gland
167606		0-	1x G 5/8"
167612		-0-	2x G 5/8"
167618	794831	0=	2x G 5/8"
167624		-0=	3x G 5/8"
167630	794832	=0=	4x G 5/8"
167636		T	3x G 5/8"
167642		X	4x G 5/8"
167648		Inset for above Junction box 4 x 2,5 mm²	

Brass, junction box empty and undrilled, IP56	
Cat. no.	***Dimensions H x W x D mm***
167656	85 x 85 x 59 mm
167662	116 x 106 x 69 mm
167668	146 x 114 x 81 mm
167674	208 x 160 x 97 mm
167680	208 x 160 x 126 mm
167686	267 x 234 x 120 mm
167692	267 x 234 x 160 mm

Polycarbonate, junction box empty and undrilled, IP65	
Cat. no.	***Dimensions H x W x D mm***
167712	52 x 50 x 35 mm
167718	65 x 50 x 35 mm
167724	82 x 80 x 55 mm
167730	82 x 80 x 85 mm
167736	120 x 80 x 55 mm
167738	120 x 80 x 85 mm
167742	160 x 80 x 55 mm
167748	120 x 120 x 55 mm
167754	122 x 120 x 85 mm
167756	120 x 120 x 105 mm
167760	160 x 120 x 90 mm
167766	200 x 120 x 75 mm
167772	240 x 120 x 100 mm
167778	240 x 160 x 90 mm
167780	240 x 160 x 120 mm

Chassis plates for above boxes	
Cat. no.	***Dimensions H x W mm***
167806	52 x 50 mm
167810	65 x 50 mm
167814	82 x 80 mm
167818	120 x 80 mm
167822	160 x 80 mm
167826	122 x 120 mm
167830	160 x 120 mm
167834	200 x 120 mm
167838	240 x 120 mm
167842	240 x 160 mm

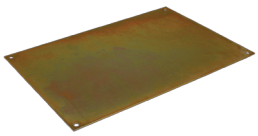
Reinforced polyester rear pannels with opaque lid, IP65	
Cat. no.	***Dimensions H x W x D mm***
167906	270 x 180 x 170 mm
167912	270 x 270 x 170 mm
167918	360 x 180 x 170 mm
167924	360 x 270 x 170 mm
167930	360 x 360 x 170 mm
167936	540 x 270 x 170 mm
167942	540 x 360 x 170 mm
167948	540 x 540 x 170 mm

168006	Mounting brackets for above enclosures, set 4 pcs

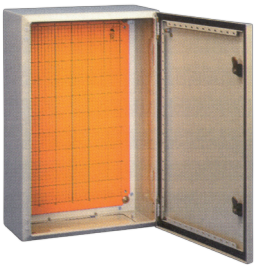
Chassis plates for above enclosures	
Cat. no.	***Dimensions H x W mm***
167956	270 x 180 mm
167962	270 x 270 mm
167968	360 x 180 mm
167974	360 x 270 mm
167980	360 x 360 mm
167986	540 x 270 mm
167992	540 x 360 mm
167998	540 x 540 mm

Heat-moulded polyester enclosures with door, IP65	
Cat. no.	***Dimensions H x W x D mm***
168112	300 x 250 x 140 mm
168118	400 x 300 x 200 mm
168124	400 x 400 x 200 mm
168130	500 x 400 x 200 mm
168136	600 x 400 x 230 mm
168142	600 x 500 x 230 mm
168148	800 x 600 x 300 mm

168206	Mounting lugs for Poly enclosure with door, set 4 pcs



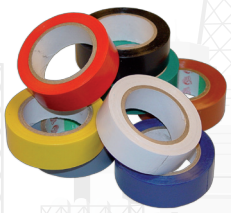
Chassis plates for above enclosures	
Cat. no.	***Dimensions H x W mm***
168162	300 x 250 mm
168168	400 x 300 mm
168174	400 x 400 mm
168180	500 x 400 mm
168186	600 x 400 mm
168192	600 x 500 mm
168198	800 x 600 mm



Sheet steel enclosures with door, IP66 (including chassis plate)	
Cat. no.	***Dimensions H x W x D mm***
168258	300 x 200 x 150 mm
168262	300 x 300 x 150 mm
168268	400 x 300 x 200 mm
168274	400 x 400 x 200 mm
168280	500 x 400 x 200 mm
168286	600 x 400 x 250 mm
168292	600 x 600 x 250 mm
168298	800 x 600 x 300 mm

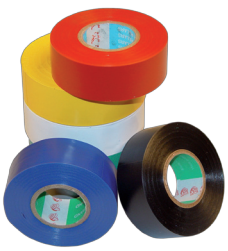
168306	Mounting lugs for Sheet steel cabinet with door, set 4 pcs

Accessoiries for enclosures		
Cat. no.	***Description***	***Fig.***
168308	Door lock for standard enclosure key	1
168310	Door lock with handle	2
168312	Door lock with handle and key	3
168352	Rittal Universal Master Key	4
168354	Universal Master Key "Cross"	5



PVC electrical insulation tape, 19 mm wide, rolls of 10 meters		
Cat. no.	***Impa no.***	***Colour***
170204	795433	red
170210	795433	blue
170216	795433	black
170222	795433	green
170228	795433	yellow
170234	795433	white
170124		yellow/green
170200	795433	assorti 5 rolls, red, blue, black, green, yellow

PVC electrical insulation tape, 19 mm wide, rolls of 20 meters		
Cat. no.	***Impa no.***	***Colour***
170254	795431	red
170260	795431	blue
170266	795431	black
170272	795431	green
170278	795431	yellow
170284	795431	white
170290		brown
170296		grey
170250	795431	assorti 5 rolls, red, blue, black, green, yellow



PVC electrical insulation tape, 25 mm wide, rolls of 20 meters		
Cat. no.		***Colour***
170304		red
170310		blue
170316		black
170112		transparent

PVC electrical insulation tape, 50 mm wide, rolls of 20 meters		
Cat. no.	***Impa no.***	***Colour***
170354	795432	red
170360	795432	blue
170366	795432	black
170372	795432	green
170378	795432	yellow
170384	795432	white
170396		grey

Rubber tape

Cat. no.	Impa no.	Description
170506	795436	Self-vulcanizing rubber tape 19 mm, roll of 9.1 mtr

Cotton tape

Cat. no.	Impa no.	Description
170560	795421	White cotton tape 20 mm, roll of 33 mtr
170562	795422	White cotton tape 20 mm, roll of 50 mtr

Empire tape

Cat. no.	Impa no.	Description
170612	795441	Varnished cambric/empire tape 20 mm, roll of 50 mtr

Teflon tape

Cat. no.	Impa no.	Description
170656	812501	Teflon tape 12 mm, roll of 5 mtr

3M/Scotch tapes

Cat. no.	Impa no.	Type	
171112		22 - 19 mm	Heavy Duty vinyl electrical tape, 19 mm, roll of 33 mtr
171118		22 - 38 mm	Heavy Duty vinyl electrical tape, 38 mm, roll of 33 mtr
171124	795436	23 - 19 mm	Self-bounding electrical tape, 19 mm, roll of 9,1 mtr
171130		23 - 25 mm	Self-bounding electrical tape, 25 mm, roll of 9,1 mtr
171136		23 - 38 mm	Self-bounding electrical tape, 38 mm, roll of 9,1 mtr
171142		24	Shielding tape, copper nickel plate, 25 mm, roll of 4,5 mtr
171148	795427	27	High temperature glass tape, 12 mm, roll of 20 mtr

continue on next page

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

3M/Scotch tapes

continuation

Cat. no.	Impa no.	Type		Fig.
171154	795431	33+ - 19 mm	Vinyl plastic tape, black 19 mm, roll of 20 mtr	1
171160		33+ - 25 mm	Vinyl plastic tape, black 25 mm, roll of 33 mtr	1
171168		33+ - 38 mm	Vinyl plastic tape, black 38 mm, roll of 33 mtr	1
171174	795431	35 - red	Vinyl plastic tape, red 19 mm, roll of 20 mtr	2
171180	795431	35 - blue	Vinyl plastic tape, blue 19 mm, roll of 20 mtr	2
171186	795431	35 - green	Vinyl plastic tape, green 19 mm, roll of 20 mtr	2
171192	795431	35 - yellow	Vinyl plastic tape, yellow 19 mm, roll of 20 mtr	2
171198	795431	35 - white	Vinyl plastic tape, white 19 mm, roll of 20 mtr	2
171204		35 - brown	Vinyl plastic tape, brown 19 mm, roll of 20 mtr	2
171210		35 - grey	Vinyl plastic tape, grey 19 mm, roll of 20 mtr	2
171216		yellow/green	Vinyl plastic tape, yellow/green 19 mm, roll of 20 mtr	3
171222		70	Silicone rubber tape, 25 mm, roll of 9,1 mtr	4
171228		88	All wheater vinyl tape, black 19 mm, roll of 20 mtr	5
171234		Scotchfill	Putty rubber insulation tape, 38 mm, roll of 1,5 mtr	6

Electrical duct seal / putty for watertight mounting

Cat. no.	Impa no.	Description	Fig.
171306	795501	Duct Seal Compound, pack of 0,5 kg	7
171308	795501	Duct Seal Compound, pack of 1,0 kg	8
171312	795501	Putty flamepoint 200 °C, bucket of 1 kg	9

fig. 9

3M Scotch Gella, removable	
Cat. no.	***Description***
171406	Scotch Gella resin 8882E (292ml) 266 gram
171412	Scotch Gella resin 8882C (385ml) 350 gram
171418	Scotch Gella resin 8882D (659ml) 600 gram

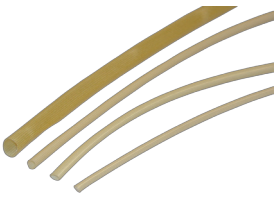
3M Scotchcast polytherurethane resin	
Cat. no.	***Description***
171454	Scotchcast resin 40A (90ml) 100 gram
171456	Scotchcast resin 40B (200ml) 230 gram
171462	Scotchcast resin 40C (370ml) 426 gram

3M Scotch cable joins with resin			
Cat. no.	***Cable ø mm***	***Conductor cross section***	***Type***
171702	6 - 16 mm	1,5 - 2,5 mm²	92-NBA0
171706	10 - 22 mm	1,5 - 6 mm²	92-NBA1
171708	12 - 25 mm	2,5 - 10 mm²	92-NBA2
171710	13 - 32 mm	6 - 16 mm²	92-NBA3
171714	18 - 36 mm	16 - 35 mm²	92-NBA4
171718	19 - 45 mm	25 - 50 mm²	92-NBA5
171722	27 - 54 mm	50 - 95 mm²	92-NBA6
171726	29 - 64 mm	95 - 185 mm²	92-NBA7

3M Scotch cable joins, cold shrink, rubber splice			
Cat. no.	***Cable ø mm***	***Length***	***Type***
171756	9,9 - 20,3 mm	178 mm	PST8425-8
171762	13,0 - 25,4 mm	229 mm	PST8426-9
171768	24,1 - 48,3 mm	305 mm	PST8428-18
171774	32,5 - 63,5 mm	457 mm	PST8429-18

Sleeving, PVC tube

Cat. no.	Impa no.	ø mm	Colour
172506	795481	1 mm	black
172514		2 mm	black
172518		2 mm	yellow/green
172522	795482	3 mm	black
172530		4 mm	black
172534		4 mm	yellow/green
172538	795483	5 mm	black
172546		6 mm	black
172550		6 mm	yellow/green
172558	795484	7 mm	black
172566		8 mm	black
172570		8 mm	yellow/green
172574	795485	9 mm	black
172582		10 mm	black
172590		10 mm	yellow/green
172606	795486	12 mm	black
172622	795487	14 mm	black
172638	795488	16 mm	black
172654		18 mm	black
172670		20 mm	black



Sleeving, cambric / empire tube

Cat. no.	Impa no.	ø mm
172806	795471	1 mm
172810		2 mm
172814	795472	3 mm
172818		4 mm
172822	795473	5 mm
172826		6 mm
172830	795474	7 mm
172834		8 mm
172842	795475	10 mm
172850	795476	12 mm

Sleeving, glass tube, for high temperature		
Cat. no.	**Impa no.**	**ø mm**
172910	795491	2 mm
172914		3 mm
172918	795492	4 mm
172922		5 mm
172926	795493	6 mm
172930		7 mm
172934	795494	8 mm
172942	795495	10 mm
172950		12 mm
172960		16 mm
172972		25 mm

Porcelain insulation beads, bags of 100 grams		
Cat. no.	**Outside ø mm**	**Inside ø mm**
173012	6,5 mm	3,3 mm
173018	9,3 mm	5,0 mm
173024	10,5 mm	6,7 mm

Metal protection tubing with PVC coating		
Cat. no.	**Outside ø mm**	**Inside ø mm**
173108	10 mm	8 mm
173112	14 mm	11 mm
173118	17 mm	13 mm
173124	19 mm	15 mm
173130	21 mm	17 mm
173136	27 mm	22 mm

Heat Shrinkable tubing, colour black

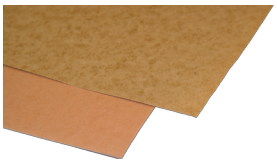
Cat. no.	ø mm	Shrinking to mm
173206	2,4 mm	1,2 mm
173210	3,2 mm	1,6 mm
173214	4,8 mm	2,4 mm
173218	6,4 mm	3,2 mm
173222	9,5 mm	4,8 mm
173226	12,7 mm	6,4 mm
173230	19,1 mm	9,5 mm
173234	25,4 mm	12,7 mm
173238	31,8 mm	15,9 mm
173242	38,1 mm	19,1 mm
173246	51,0 mm	25,4 mm
173250	64,0 mm	32,0 mm
173254	76,0 mm	38,0 mm
173258	88,0 mm	44,0 mm
173262	102,0 mm	51,0 mm

Heat Shrinkable kit, variety of types, diameters and colours

Cat. no.	Description
173274	Box, containing assorted Heat Shrinkable tubes, 35 - 100 mm long, dia size 1,6 till 13,0 mm

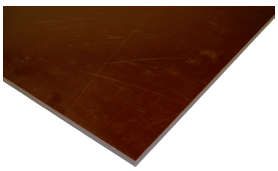
Heat Shrinkable tubing with glue, colour black, lenght of 1 meter

Cat. no.	ø mm	Shrinking to mm
173312	8,0 mm	2,0 mm
173316	12,0 mm	3,0 mm
173320	22,0 mm	6,0 mm
173324	34,0 mm	7,0 mm
173328	40,0 mm	12,0 mm
173332	56,0 mm	16,0 mm
173336	72,0 mm	22,0 mm
173340	92,0 mm	26,0 mm
173344	120,0 mm	34,0 mm

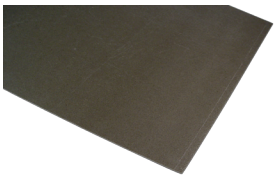


Prespane insulating sheets			
Cat. no.	*Impa no.*	*Thickness mm*	*Estimate Sheet size*
173612	795403	0,1 mm	500 x 350 mm
173618	795406	0,2 mm	700 x 500 mm
173624	795407	0.3 mm	700 x 500 mm
173630	795408	0,4 mm	700 x 500 mm
173636	795409	0,5 mm	700 x 500 mm
173642		0,6 mm	700 x 500 mm
173648		1,0 mm	700 x 500 mm
173654		1,5 mm	700 x 500 mm
173656		2,0 mm	700 x 500 mm
173660		3,0 mm	700 x 500 mm

Plastic insulating sheets (Mylar)			
Cat. no.		*Thickness mm*	*Estimate Sheet size*
173712		0,19 mm	500 x 500 mm
173724		0,25 mm	500 x 500 mm



Phenol-impregnated pressed sheets (Pertinax)			
Cat. no.		*Thickness mm*	*Estimate Sheet size*
173806	795382	1 mm	500 x 500 mm
173812	795383	2 mm	500 x 500 mm
173818	795331	3 mm	500 x 500 mm
173824	795385	4 mm	500 x 500 mm
173830	795332	5 mm	500 x 500 mm
173836	795333	6 mm	500 x 500 mm
173842	795334	8 mm	500 x 500 mm
173848	795335	10 mm	500 x 500 mm
173854	795390	12 mm	500 x 500 mm
173860	795338	15 mm	500 x 500 mm
173866	795340	20 mm	500 x 500 mm
173872	795341	25 mm	500 x 500 mm



Micanite sheets			
Cat. no.		*Thickness mm*	*Estimate Sheet size*
173912		1 mm	1000 x 600 mm

Round Celleron bar, approx length 1 meter		
Cat. no.	***Impa no.***	***ø mm***
174012	795302	10 mm
174018	795303	12 mm
174024	795305	15 mm
174030	795308	20 mm
174036	795310	25 mm
174042	795313	30 mm
174048	795317	40 mm
174054	795319	50 mm
174060	795321	60 mm
174066	795322	65 mm
174072		70 mm
174078		80 mm
174084		90 mm
174090		100 mm

INSULATION MATERIALS

Insulating varnish in spraytin (urethane)			
Cat. no.		***Description***	***Contents***
175112	795523	Red, air drying insulation spray	spray 300 ml
175118	795521	Clear, air drying insulation spray	spray 300 ml
175124		Black, air drying insulation spray	spray 400 ml

CRC insulating varnish in spraytin (urethane)			
Cat. no.		***Description***	***Contents***
175162	795523	Red, air drying insulation spray	spray 300 ml
175168	795521	Clear, air drying insulation spray	spray 300 ml

Insulating varnish in can (urethane)			
Cat. no.		***Description***	***Contents***
175184	795524	Red, air drying insulation varnish	tin of 1 ltr
175190		Red, air drying insulation varnish	can of 5 ltrs
175196	795522	Clear, air drying insulation varnish	tin of 1 ltr

White spirit			
Cat. no.		***Description***	***Contents***
175230		White spirit, for insulation varnish	bottle of 1 ltr

ELECTRO CLEANER

Electro cleaner			
Cat. no.	***Impa no.***	***Description***	***Contents***
175260	450427	Electro cleaner, for cleaning all electrical equipment and motors	can of 20 ltrs
175268		CRC electro cleaner, the same as above only quick dry	can of 5 ltrs
175272		CRC electro cleaner, the same as above only 20 ltrs	can of 20 ltrs

WD-40

Cat. no.	Impa no.	Description	Contents
175312		WD-40, lubricates, penetrates protects, and loosens corrosion	spray 200 ml
175318	450702	same as above only 400ml	spray 400 ml
175324		same as above only can of 5 ltrs	can of 5 ltrs

CRC products

Cat. no.	Impa no.	Description	Contents
175412	450591	CRC 2-26, multi-purpose maintenance for electrical equipment. *Cleans, lubricates, protects, penetrates and loosens corrosion*	spray 200 ml
175424	450581	CRC 3-36, multi-purpose lubricant and corrosion inhibitor. *Multi-purpose lubricant, penetrant and corrosion inhibitor*	spray 300 ml
175436	450582	CRC 5-56, multi-purpose service spray. *Penetrates quickly, even into the finest pores and cracks of the surface*	spray 200 ml
175448	450584	CRC 6-66 marine maintenance spray *Lubricates, protects, penetrates, and loosens corrosion*	spray 300 ml
175460	795510	CRC Co Contact, effective precision cleaner. *Fast cleaning action for removal of flux traces, light oils, finger prints and other contaminants*	spray 200 ml
175466	795511	CRC Co Contact, same as above only 300 ml.	spray 300 ml
175468	450902	CRC N.F. Precision Cleaner, non-flammable solvent cleaner *Light contaminants on electrical or electronic parts.*	spray 300 ml
175470		CRC QD-Contact Cleaner, quick drying solvent cleaner. *Light contaminants on electrical or electronic parts. Also compatible wit sensitive plastic*	spray 300 ml
175478	450592	CRC Lectra clean II, Electric motor and equipment cleaner/degreaser.*Controlled evapration for enhanced cleaning action*	spray 500 ml

continue on next pag

CRC products

continuation

Cat. no.	Impa no.	Description	Contents
175484		CRC Quickleen, quick dry non-chlorinated cleaner. *Quickly dissolves grease, oil, lubricants, tas and adhesives*	spray 500 ml
175496	450583	CRC Brâkleen, powerful cleaner/degreaser for brake and clutch parts. *Effectively removes brake fluid, grease, oil and hardened deposits*	spray 300 ml
175508	450607	CRC Silicone, multi-use synthetic lubricant, *Forms a colourless, non-hardening film*	spray 400 ml
175520		CRC Minus 50, coolant for electrical and electronic use. *Protect heat sensitive components from high temperatures during soldering and desoldering*	spray 200 ml
175532	450586	CRC SP400 Soft Seal, long-term outdoor and indoor corrosion inhibitor. Long-term protection (up to 1 year) for all metals during shipment or extended storage	spray 300 ml
175544	472775	CRC Dust Free, high pressure dust remover. *Essential for all cleaning operations where liquid solvents are inappropriate*	spray 200 ml
175556		CRC Antispatter, welding spatter prevention and release. *Extended nozzle life*	spray 400 ml
175568	450587	CRC Zinc, high performance zick-rich coating. *Excellent corrosion ressitance through cathodic protection*	spray 400 ml
175574	450596	CRC Motor Starter, start-spray engine igniter. Insures quick engine starts at low temperatures	spray 200 ml

Several Sprays

Cat. no.	Impa no.	Description	Contents
175666	795511	Contact cleaner, effective precision cleaner	spray 300 ml
175696	450583	Brake cleaner, powerful cleaner/degreaser for brake and clutch parts	spray 500 ml
175744	472775	Dust free, high pressure dust remover	spray 400 ml
175774	450596	Start spray, engine igniter	spray 400 ml

fig. 1

fig. 2

fig. 3

fig. 4

Mini switches, flush mounting

Cat. no.	Impa no.	Description	Fig.
176112	793074	Push button switch, 1-pole 2 Amp.	1
176118		Push button switch, 2-poles 2 Amp.	2
176130		Pull-cord switch, 1-pole 2 Amp.	3
176136		Momentary push button switch, 2-poles 6 Amp.	4

fig. 1

fig. 2

Cord switches / Bell push-button switch

Cat. no.	Impa no.	Description	Fig.
176148		Cord push button switch, 1-pole	1
176154		Cord push button switch, 2-poles	1
176166	793066	Bell push button switch, impuls	2

fig. 1

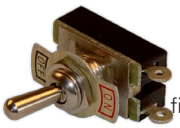


fig. 2

fig. 3

Tumble switches, panel mounting

Cat. no.	Impa no.	Contact	Knob Position	250V AC	Finish.	Fig.
176206		1-pole	on / off	3 Amp.	chrome	1
176212	793008	1-pole	on / off	1 Amp.	chrome	2
176228	793006	2-poles	on / off	3 Amp.	chrome	2
176236	793009	2-poles	on / off	10 Amp.	chrome	3
176244		1-pole	on / on	3 Amp.	chrome	1
176252		2-poles	on / on	3 Amp.	chrome	1
176260	793007	2-poles	on / on	3 Amp.	chrome	2
176268		1-pole	on / off / on	3 Amp.	chrome	1
176276		2-poles	on / off / on	10 Amp.	chrome	3

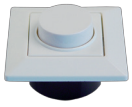


fig. 1

fig. 2

fig. 3

fig. 4

Dimmer switches for chartroom and domestic use. Only for AC voltage

Cat. no.	Impa no.	Description	Min./Max. wattage	Colour	Fig.
176312		Flush mounting	20 - 300W	white	1
176318		Flush mounting	60 - 600W	white	1
176330	793096	Surface mounting	20 - 300W	white	2
176336		Surface mounting	60 - 600W	white	2
176348		Cord type	40 - 160W	white	3
176354		Plug-in type	40 - 300W	white	4

fig. 1

fig. 2

fig. 3

Cabin switches, surface mounting

Cat. no.	Impa no.	Description	Colour	Fig.
176412	793091	Switch, on/off 10 Amp. Single-pole	white	1
176418		Switch, on/off 10 Amp. Double-poles	white	1
176424		Switch, on/off 10 Amp. Two-way	white	1
176430		Switch, on/off 10 Amp. Two-circuit	white	2
176436		Switch pull-type, on / off 10 Amp. Two-way	white	3

fig. 1

fig. 2

fig. 3

Cabin switches, flush mounting

Cat. no.	Impa no.	Description	Colour	Fig.
176462		Switch, on/off 10 Amp. Single-pole	white	1
176468		Switch, on/off 10 Amp. Double-poles	white	1
176474	793092	Switch, on/off 10 Amp. Two-way	white	1
176480	793093	Switch, on/off 10 Amp. Two-circuit	white	2
176486		Switch pull-type, on / off 10 Amp. Two-way	white	3

fig. 1

fig. 2

Timer switch and accessories

Cat. no.		Description	Fig.
176572		Timer switch for socket with earth 24 hours	1
176596		Pull cord for switch	2

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

European receptacles, surface mounting

Cat. no.	Impa no.	Description	Earth	Colour	Fig.
177112		Socket 2-pole for 1-plug	no	white	1
177118		Socket 2-pole for 2-plugs	no	white	2
177124		Socket 2-pole for 3-plugs, straight	no	white	3
177130		Socket 2-pole for 4-plugs, square	no	white	4
177162	792922	Socket 2-pole for 1-plug	yes	white	5
177168		Socket 2-pole for 1-plug, rubber	yes	black	6
177174	792923	Socket 2-pole for 2-plugs	yes	white	7
177180		Socket 2-pole for 3-plugs, straight	yes	white	8
177186		Socket 2-pole for 4-plugs, straight	yes	white	9
177192		Socket 2-pole for 4-plugs, square	yes	white	10

fig. 1

fig. 2

fig. 3

fig. 4

European receptacles, flush mounting

Cat. no.	Description	Earth	Colour	Fig.
177212	Socket 2-pole for 1-plug	no	white	1
177218	Socket 2-pole for 2-plugs	no	white	2
177224	Socket 2-pole for 1-plug	yes	white	3
177230	Socket 2-pole for 2-plugs	yes	white	4

fig. 1

fig. 2

European receptacles with switch, surface mounting

Cat. no.	Description	Earth	Colour	Fig.
177412	Switch-socket, two-way switch	no	white	1
177418	Switch-socket, two-circuit switch	no	white	2
177430	Switch-socket, two-way switch	yes	white	1
177436	Switch-socket, two-circuit switch	yes	white	2

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

Watertight European switches and receptacles IP44, surface mounting

Cat. no.	Description	Colour	Fig.
176506	Switch, on/off 10 Amp. Double-poles	grey	1
176512	Switch, on/off 10 Amp. Two-way	grey	1
176518	Switch, on/off 10 Amp. Two-circuit	grey	2
176536	Switch, Light / Dark 10 Amp. Single-pole		3
177612	Socket 2-pole for 1-plug	grey	4
177618	Socket 2-pole for 2-plugs	grey	5
177624	Switch-socket, two way switch	grey	6

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

European male plugs

Cat. no.	Impa no.	Description	Earth	Colour	Fig.
177812		Plug 2-pole	no	white	1
177818	792921	Plug 2-pole	yes	white	2
177824		Plug 2-pole, with side inlet	yes	white	3
177830		Plug 2-pole, with switch	yes	white	4
177836		Plug 2-pole, PVC	yes	white	5
177842		Plug 2-pole, Rubber	yes	black	6
177844		Plug 2-pole, Rubber "cheap"	yes	black	6
177848		Plug 2-pole, Rubber for illumination cable	yes	black	7
177948		End for Rubber illumunation cable with metal hook		black	8

fig. 1

fig. 2

fig. 3

fig. 4

European Female plugs

Cat. no.	Description	Earth	Colour	Fig.
177912	Coupling 2-pole	no	white	1
177918	Coupling 2-pole	yes	white	2
177936	Coupling 2-pole, PVC	yes	white	3
177942	Coupling 2-pole, Rubber	yes	black	4
177944	Coupling 2-pole, Rubber "cheap"	yes	black	4

fig. 1

fig. 2

Cable connectors

Cat. no.	Impa no.	Description	Earth	Colour	Fig.
177950	792935	Cable connector	yes	white	1
177952	794751	Cable connector, Rubber	yes	black	2

fig. 1

fig. 2

Multiway plugs

Cat. no.	Impa no.	Description	Earth	Colour	Fig.
177962		3-way plug 2-pole	no	white	1
177982		3-way plug 1x Earth/2x without Earth	yes	white	2
177988		2-Way plug 2-pole with Switch	yes	white	3
177970	792930	3-way plug 2-pole	yes	white	4

fig. 3

fig. 4

Distribution sockets without cable

Cat. no.	Description	Earth	Colour	Fig.
178012	Socket watertight for 3-plugs	yes	blue	1
178024	Socket Watertight for 3-plugs, Rubber	yes	black	2

fig. 1

fig. 2

fig. 3

fig. 4

Distribution sockets with cable

Cat. no.	Impa no.	Description	Earth	Colour	Fig.
178112		Socket 3-way with 1,5 mtr cable	no	white	1
178118		Socket 4-way with 1,5 mtr cable	no	white	1
178162		Socket 3-way with 1,5 mtr cable	yes	white	2
178168		Socket 3-way with 3,0 mtr cable	yes	white	2
178174	792966	Socket 3-way with 5,0 mtr cable	yes	white	2
178180		Socket 4-way with 1,5 mtr cable	yes	white	3
178186	792967	Socket 4-way with 3,0 mtr cable	yes	white	3
178192	792968	Socket 4-way with 5,0 mtr cable	yes	white	3
178204		Socket 6-way with 3,0 mtr cable	yes	white	4

fig. 1

fig. 2

fig. 3

fig.1 fig. 2

Distribution sockets / switch with cable

Cat. no.	Description	Earth	Colour	Fig.
178256	Socket / switch 3-way with 1,5 mtr cable	yes	white	1
970240	Socket / switch 3-way with 1,5 mtr cable	yes	black	1
178262	Socket / switch 4-way with 1,5 mtr cable	yes	white	2
970246	Socket / switch 4-way with 1,5 mtr cable	yes	black	2
178274	Socket / switch 6-way with 1,5 mtr cable	yes	white	3
970252	Socket / switch 6-way with 1,5 mtr cable	yes	black	3
178280	Socket / switch 6-way with 3,0 mtr cable	yes	white	3
178286	Socket / switch 6-way with 5,0 mtr cable	yes	white	3

Distribution sockets with thermal overload / switch with cable

Cat. no.	Description	Earth	Colour	Fig.
178308	Socket / switch 5-way with 1,5 mtr cable	yes	white	1
178318	Socket / switch 6-way with 1,5 mtr cable and reset	yes	white	2

Cable drums

Cat. no.	Impa no.	Description
178350		Cable Reel 4-way/Earth without cable
178349	794393	Cable Reel 3-way 2x flat 1x U, with 50 mtr pvc cable 3 x 1,5 mm² and plug 2x flat 1x U
178352	792970	Calex Cable Reel 4-way/Earth with 10 mtr pvc cable 3 x 1,5 mm² and plug/Earth
178356	794395	Calex Cable Reel 4-way/Earth with 25 mtr pvc cable 3 x 1,5 mm² and plug/Earth
178362	794397	Calex Cable Reel 4-way/Earth with 50 mtr pvc cable 3 x 1,5 mm² and plug/Earth
178368	794395	Calex Cable Reel 4-way/Earth with 25 mtr rubber cable 3 x 1,5 mm² and plug/Earth
178374	794397	Calex Cable Reel 4-way/Earth with 50 mtr rubber cable 3 x 1,5 mm² and plug/Earth

Extension cables

Cat. no.		Description
178376		PVC Extension cable with 5 mtr 3 x 1,5 mm², with plug male/female with earth
178386		PVC Extension cable with 20 mtr 2 x 1,0 mm², orange
178387		PVC Extension cable with 20 mtr 3 x 1,5 mm², orange
178381	794395	Rubber Extension cable with 10 mtr 3 x 1,5 mm², with plug male/female IP44
178382		Rubber Extension cable with 15 mtr 3 x 1,5 mm², with plug male/female IP44
178383	794395	Rubber Extension cable with 20 mtr 3 x 1,5 mm², with plug male/female IP44

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

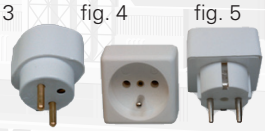


fig. 7

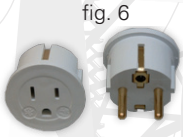


fig. 8

fig. 9

Appliance and Adaptor plugs, indoor

Cat. no.		Description	Fig.
178512		Appliance plug 2-poles with earth - CEE type	1
178516		Adaptor-plug traveling set of 4 pcs	2
178518	792961	Adaptor-plug with flat pins, American to European/American	3
178524	792962	Adaptor-plug with round pins, European to American/European	4
178530		Adaptor-plug with 2x flat + U, American to European/Schuko	5
178536		Adaptor-plug with Belgian pin earth, Belgian to European/Schuko	6
178538		Adaptor-plug European/Schuko to Belgian pin earth	7
178542		Adaptor-plug with European/Schuko/Belgian, European/Schuko/Belgian earth to American/Japanese 2x flat + U	8
178554		Adapter-plug with European/Schuko, European/Schuko to English 13Amp	9

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

fig. 11

Belgian wiring accessories, indoor

Cat. no.	Description	Fig.
178618	Receptacle 2-pole/Pin Earth for 4-plugs, Table-type	1
178630	Receptacle 2-pole/Pin Earth for 1-plug, flush mounting	2
178636	Receptacle 2-pole/Pin Earth for 2-plugs, flush mounting	
970164	Table Receptacle 3-way 2-pole/Pin Earth + switch with cable 1.4mtr + plug, white	3
970166	Table Receptacle 4-way 2-pole/Pin Earth + switch with cable 1.4mtr + plug, white	3
178654	Plug 2-pole/Pin Earth male, with side inlet	4
178660	Plug 2-pole/Pin Earth male, PVC	5
178666	Female Plug 2-pole/Pin Earth, PVC	6
178672	Plug 2-pole/Pin Earth male, Rubber	7
178678	Female Plug 2-pole/Pin Earth, Rubber	8
178684	Plug male, flat-type	9
178690	Plug female, flat-type	10
178696	2-Way plug 2-pole/Pin Earth with Switch	11

fig. 1

fig. 2

fig. 3

Belgian extension cables

Cat. no.	Description	Fig.
178698	PVC Extension cable with 5 mtr 3 x 1,5 mm², with plug male/female with Pin Earth, white	1
178700	PVC Extension cable with 10 mtr 3 x 1,5 mm², with plug male/female with Pin Earth, white	1
178716	PVC Extension cable with 20 mtr 3 x 1,5 mm² with Pin Earth, orange	2
178720	Rubber Extension cable with 10 mtr 3 x 1,5 mm², with plug male/female with Pin Earth IP44	3
178706	Rubber Extension cable with 20 mtr 3 x 1,5 mm², with plug male/female with Pin Earth IP44	3

fig. 1

fig. 2

fig. 3

German HNA wiring accessories, indoor

Cat. no.	Description	Fig.
178812	Receptacle 3-pole for 1-plug, surface mounting	1
178818	Receptacle 3-pole for 1-plug, flush mounting	2
178830	Plug 3-pole, angle type	3

fig. 1

fig. 2

fig. 3

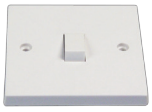


fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

British wiring accessories, indoor

Cat. no.		Description	Fig.
179024		Receptacle 3-pole 13A, flush mounting	1
179030		Switch-socket 13 Amp. with 3-pole, surface mounting	2
179042		Switch-socket 13 Amp. with 3-pole, flush mounting	3
179060		Switch 1-pole, flush mounting	4
179072		Surface Mounting box 1-gang for flush material	5
179078		Surface Mounting box 2-gang for flush material	6
179116		Plug 13 Amp. with 3-pole	7
179118		Plug 13 Amp. with 3-pole and fuse	7
179152	792984	Multiway Receptacle 3-ways 13A 3 flat pins, with cable 3 mtr + plug	8
179156	792985	Multiway Receptacle 3-ways 13A 3 flat pins, with cable 5 mtr + plug	8
179160	792988	Multiway Receptacle 4-ways 13A 3 flat pins, with cable 3 mtr + plug	8
179164	792989	Multiway Receptacle 4-ways 13A 3 flat pins, with cable 5 mtr + plug	8

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

fig. 11

fig. 12

fig. 13

fig. 14

fig. 15

fig. 16

fig. 17

fig. 18

fig. 19

fig. 20

fig. 21

fig. 22

fig. 23

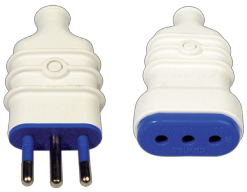
fig. 24

Japanese / American wiring accessories, indoor

Cat. no.	Impa no.	Description	Fig.
179512	792952	Receptacle 2x flat for 1-plug, surface mounting	1
179212	792979	Receptacle 2x flat for 4-plugs, Wall/Table-type	2
179460	792953	Receptacle 2x flat, surface mounting with plug	3
179218	792976	Receptacle 2x flat + U Square-type, surface mounting	4
179224	792902	Receptacle 2x flat + U Round-Type, surface mounting	5
179230	792977	Receptacle 2x flat + U for 2-plugs, Wall/Table-type	6
179242	792973	Receptacle 2x flat + U for 1-plug with Ivory plate, flush mounting	7
179248	792974	Receptacle 2x flat + U for 2-plugs with Ivory plate, flush mounting	8
179456	792903	Receptacle 2x flat + U, surface mounting with plug	9
179236	792905	Receptacle 3x flat, surface mounting	10
179272	792906	Receptacle 3x flat, surface mounting with plug	11
179312	793001	Switch 2-pole 5 Amp. 1T2, surface mounting	12
179318	793002	Switch 2-pole 10 Amp. 2T2, surface mounting	13
179330	793061	Switch with toggle double-type, flush mounting	14
179336	793062	Switch with toggle single-type, flush mounting	15
179412	792951	Plug male 2x flat, black	16
179612		Plug male 2x flat, white	17
179418	792901	Plug male 2x flat + U	18
179424		Rubber Plug male 2x flat + U	19
179430		Rubber Plug female 2x flat + U	20
179436	794753	Rubber cable connector 15 Amp. 2x flat + U	21
179442	792904	Plug male 3x flat	22
179630	792981	Multiway Plug 2x flat, for 3-plugs 2x flat	23
179652	792994	Multiway Receptacle 3-ways 2 Flat pins, with cable 3 mtr + plug	24
179656	792995	Multiway Receptacle 3-ways 2 Flat pins, with cable 5 mtr + plug	24
179660	792996	Multiway Receptacle 4-ways 2 Flat pins, with cable 3 mtr + plug	24
179664	792997	Multiway Receptacle 4-ways 2 Flat pins, with cable 5 mtr + plug	24

Japanese / American cable drum

Cat. no.	Impa no.	Description
178349	794393	Cable Reel 3-way 2x flat 1x U, with 50 mtr pvc cable 3 x 1,5 mm² and plug 2x flat 1x U



Italian wiring accessories, indoor

Cat. no.	Impa no.	Description
179712		Plug male 3-pole
179724		Plug female 3-pole

Cee-norm Plugs IP44

Cat. no.	Impa no.	Voltage	Poles	Ampere	Hour	Colour
180112		24	2	16		purple
180118		24	3	16		purple
180124		42	2	16	12H	white
180130		42	3	16	12H	white
180136	792751	110	3	16	4H	yellow
180142		110	4	16	4H	yellow
180148		110	3	32	4H	yellow
180154		110	4	32	4H	yellow
180160	792756	220	3	16	6H	blue
180166	792753	220	4	16	9H	blue
180172		220	5	16	9H	blue
180178		220	3	32	6H	blue
180184		220	4	32	9H	blue
180202		380/415	3	16	9H	red
180208	792758	380/415	4	16	6H	red
180214		380/415	5	16	6H	red
180220		380/415	3	32	9H	red
180226		380/415	4	32	6H	red
180232		380/415	5	32	6H	red

Cee-norm Couplings IP44

Cat. no.		Voltage	Poles	Ampere	Hour	Colour
180312		24	2	16		purple
180318		24	3	16		purple
180324		42	2	16	12H	white
180330		42	3	16	12H	white
180336		110	3	16	4H	yellow
180342		110	4	16	4H	yellow
180348		110	3	32	4H	yellow
180354		110	4	32	4H	yellow
180360		220	3	16	6H	blue
180366		220	4	16	9H	blue
180372		220	5	16	9H	blue
180378		220	3	32	6H	blue
180384		220	4	32	9H	blue
180402		380/415	3	16	9H	red
180408		380/415	4	16	6H	red
180414		380/415	5	16	6H	red
180420		380/415	3	32	9H	red
180426		380/415	4	32	6H	red
180432		380/415	5	32	6H	red

Cee-norm Receptacles IP44						
Cat. no.	Impa no.	Voltage	Poles	Ampere	Hour	Colour
180512		24	2	16		purple
180518		24	3	16		purple
180524		42	2	16	12H	white
180530		42	3	16	12H	white
180536	792761	110	3	16	4H	yellow
180542		110	4	16	4H	yellow
180548		110	3	32	4H	yellow
180554		110	4	32	4H	yellow
180560		220	3	16	6H	blue
180566	792763	220	4	16	9H	blue
180572		220	5	16	9H	blue
180578		220	3	32	6H	blue
180584		220	4	32	9H	blue
180602		380/415	3	16	9H	red
180608		380/415	4	16	6H	red
180614		380/415	5	16	6H	red
180620		380/415	3	32	9H	red
180626		380/415	4	32	6H	red
180632		380/415	5	32	6H	red

Cee-norm Receptacles flush mounting pliance 10° IP44					
Cat. no.	Voltage	Poles	Ampere	Hour	Colour
180760	220	3	16	6H	blue
180778	220	3	32	6H	blue
180808	380/415	4	16	6H	red
180814	380/415	5	16	6H	red
180826	380/415	4	32	6H	red
180832	380/415	5	32	6H	red

Cee-norm Appliance receptacles with pins IP44					
Cat. no.	Voltage	Poles	Ampere	Hour	Colour
180960	220	3	16	6H	blue
180978	220	3	32	6H	blue
180988	380/415	4	16	6H	red
180990	380/415	5	16	6H	red
180996	380/415	4	32	6H	red
180998	380/415	5	32	6H	red

Cee-norm Plugs, watertight IP67

Cat. no.	Impa no.	Voltage	Poles	Ampere	Hour	Colour
181136	792751	110	3	16	4H	yellow
181160	792752	220	3	16	6H	blue
181166	792753	220	4	16	9H	blue
181190		220	3	63	6H	blue
181196		220	4	63	9H	blue
181202		380/415	3	16	9H	red
181208	792754	380/415	4	16	6H	red
181214		380/415	5	16	6H	red
181220		380/415	3	32	9H	red
181226		380/415	4	32	6H	red
181232		380/415	5	32	6H	red
181238		380/415	3	63	9H	red
181244		380/415	4	63	6H	red
181250		380/415	5	63	6H	red
181256		380/415	4	125	6H	red
181262		380/415	5	125	6H	red

Cee-norm Couplings, watertight IP67

Cat. no.	Voltage	Poles	Ampere	Hour	Colour
181336	110	3	16	4H	yellow
181360	220	3	16	6H	blue
181366	220	4	16	9H	blue
181390	220	3	63	6H	blue
181396	220	4	63	9H	blue
181402	380/415	3	16	9H	red
181408	380/415	4	16	6H	red
181414	380/415	5	16	6H	red
181420	380/415	3	32	9H	red
181426	380/415	4	32	6H	red
181432	380/415	5	32	6H	red
181438	380/415	3	63	9H	red
181444	380/415	4	63	6H	red
181450	380/415	5	63	6H	red
181456	380/415	4	125	6H	red
181462	380/415	5	125	6H	red

Cee-norm Receptacles, watertight IP67

Cat. no.	Impa no.	Voltage	Poles	Ampere	Hour	Colour
181536	792761	110	3	16	4H	yellow
181560	792762	220	3	16	6H	blue
181566	792763	220	4	16	9H	blue
181590		220	3	63	6H	blue
181596		220	4	63	9H	blue
181602		380/415	3	16	9H	red
181608	792764	380/415	4	16	6H	red
181614		380/415	5	16	6H	red
181620		380/415	3	32	9H	red
181626		380/415	4	32	6H	red
181632		380/415	5	32	6H	red
181638		380/415	3	63	9H	red
181644		380/415	4	63	6H	red
181650		380/415	5	63	6H	red
181656		380/415	4	125	6H	red
181662		380/415	5	125	6H	red

Cee-norm Appliance receptacles with pins, watertight IP67

Cat. no.		Voltage	Poles	Ampere	Hour	Colour
181990		220	3	16	6H	blue
182044		380/415	4	63	6H	red
182050		380/415	5	63	6H	red
182056		380/415	4	125	6H	red
182062		380/415	5	125	6H	red

Cee-norm Receptacles with switch, watertight IP67

Cat. no.	Impa no.	Voltage	Poles	Ampere	Hour	Colour
182154	792771	110	3	16	4H	yellow
182160	792772	220	3	16	6H	blue
182166	792773	220	4	16	9H	blue
182172	792774	380/415	4	16	6H	red
182174		380/415	5	16	6H	red
182180		380/415	4	32	6H	red
182182		380/415	5	32	6H	red
182190		380/415	4	63	6H	red
182192		380/415	5	63	6H	red

fig. 1

fig. 2

fig. 3

fig. 4

Cee-norm wiring accessories for container use 32 Amp. 3-pole with earth on 3 Hour

Cat. no.	Description	Fig.
182108	Male plug IP67	1
182116	Female coupling IP67	2
182124	Receptacle surface mounting with switch IP67	3
182132	Receptacle flush mounting IP67	4

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

Brass casing Cee-norm wiring accessories for container use 32 Amp. 3-pole with earth on 3 Hour

Cat. no.	Description	
182208	Brass male plug IP56	1
182216	Brass socket with switch IP56 0-	2
182224	Brass socket with switch IP56 0=	2
182232	Brass socket with switch IP56 -0-	2
182240	Interior female for brass container plug	3
182248	Interior female for brass container socket	4
182256	Switch Interior for brass container socket	5
182258	Knop voor above switch	6
182262	Plastic screw Cap for brass container socket	7
182266	Threaded ring M58x1.5 for brass container socket	8
182142	CEE Container Extension cable Male/Female Plug, 380/440V 32A 3P+earth 3H IP67, length 20 meter	

WATERTIGHT WIRING ACCESSORIES MARINE USE

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 7

fig. 6

Concentric wiring accessories

Cat. no.	Description	Fig.
183172	Male Plug, 2-pole 10A 50V phenol IP56	1
183176	Female Coupling, 2-pole 10A 50V phenol IP56	2
183148	Socket cast brass, 2-pole 10A 50V 0-, straight-type IP56	3
183154	Socket cast brass, 2-pole 10A 50V 0=, straight-type IP56	4
183160	Socket cast brass, 2-pole 10A 50V -0-, straight-type IP56	5
183194	Plug interior, 2-pole 10A max. 50V	6
183188	Socket Interior, 2-pole 10A max. 50V	7

GERMAN WATERTIGHT WIRING ACCESSORIES MARINE USE

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

HNA German socket IP56

Cat. no.	Description	Pole	Gland position	Fig.
183312	Socket 16A AC/10A DC, cast brass	2P + Earth	0-	1
183318	Socket 16A AC/10A DC, cast brass	2P + Earth	-0	2
183324	Socket 16A AC/10A DC, cast brass	2P + Earth	0=	3
183330	Socket 16A AC/10A DC, cast brass	2P + Earth	=0	4
183336	Socket 16A AC/10A DC, cast brass	2P + Earth	-0-	5

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

HNA German socket with switch IP56

Cat. no.	Impa no.	Description	Pole	Gland position	Fig.
183362		Socket with switch, cast brass	2P + Earth	0-	1
183368		Socket with switch, cast brass	2P + Earth	-0	2
183374		Socket with switch, cast brass	2P + Earth	0=	3
183386	792887	Socket with switch, cast brass	2P + Earth	=0	4
183398		Socket with switch, cast brass	2P + Earth	-0-	5
183380		Socket with switch, synthenic resin	2P + Earth	0=	6
183392	792882	Socket with switch, synthenic resin	2P + Earth	=0	7

fig. 1

fig. 2

fig. 3

fig. 4

HNA German switch IP56

Cat. no.	Impa no.	Description	Pole	Gland position	Fig.
183412		Switch 10A, cast brass	2-pole	0-	1
183418	793014	Switch 10A, cast brass	2-pole	0=	2
183430		Switch 10A, cast brass	2-pole	-0-	3
183424	793015	Switch 10A, synthenic resin	2-pole	0=	4

fig. 1

fig. 2

fig. 3

HNA German push-button switch IP56

Cat. no.	Description	Pole	Gland position	Fig.
183512	Push-button switch 10A, cast brass	NO/NC	0-	1
183518	Push-button switch 10A, cast brass	NO/NC	0=	2
183524	Push-button switch 10A, cast brass	NO/NC	-0-	3

fig. 1

fig. 2

HNA German socket with switch and plug IP56

Cat. no.	Impa no.	Description	Pole	Gland position	Fig.
183544	792888	Socket with switch and plug, cast brass	2P + Earth	=0	1
183540	792883	Socket with switch and plug, synthenic resin	2P + Earth	=0	2

fig. 1

fig. 2

fig. 3

HNA German socket IP56

Cat. no.		Description	Pole	Gland position	Fig.
183562		Socket for testpanel, cast brass	2P + Earth	----	1
183568		Socket for 2-plugs, cast brass	2P + Earth	-00-	2
183574		Socket for 3-plugs, cast brass	2P + Earth	-000-	3

fig. 1

fig. 2

fig. 3

fig. 4

HNA German plugs and coupling IP56

Cat. no.	Impa no.	Description	Voltage	Pole	Fig.
183612		Male plug 16A, cast brass	110V	2P + Earth	1
183624	792886	Male plug 16A, cast brass	220V	2P + Earth	1
183636		Female plug 16A, cast brass	220V	2P + Earth	2
183618		Male male plug, synthetic resin	110V	2P + Earth	3
183630	792881	Male male plug, synthetic resin	220V	2P + Earth	3
183642		Female plug 16A, synthetic resin	220V	2P + Earth	4

fig. 1

fig. 2

fig. 3

fig. 4

HNA German lockable wiring accessories IP56

Cat. no.		Description	Pole	Gland position	Fig.
183662		Socket with switch, cast brass	2P + Earth	0-	1
183668		Socket with switch, cast brass	2P + Earth	-0	2
183674		Socket with switch, cast brass	2P + Earth	-0-	3
183680		Male plug 16A 220V, cast brass	2P + Earth		4

fig. 1

fig. 2

fig. 3

fig. 4

HNA German telephone and microphone wiring accessories IP56

Cat. no.	Description	Pole	Gland position	Fig.
183712	Socket max. 50V DC 6A	4-pole	0-	1
183718	Socket max. 50V DC 6A	4-pole	-0	2
183724	Male plug max. 50V DC 6A	4-pole		3
183730	Female plug max. 50V DC 6A	4-pole		4

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

fig. 11

Spare parts for HNA German wiring accessories

Cat. no.	Impa no.	Description	Pole	Fig.
183862	792893	Switch interior, with knob	2-pole	1
183868		Switch interior, with knob	two-way	1
183872		Knob for switch "oval shaft"		2
183873		Knob for switch "D shaft"		2
183874		Knob for switch "triangular shaft"		2
183880		Plug interior 42V with square earth pin	2P + Earth	3
183886		Plug interior max 150V	2P + Earth	3
183892	792891	Plug interior max 250V	2P + Earth	3
183898		Plug interior max 50V	4P + Earth	3
183910		Socket interior max 150V	2P + Earth	4
183916	792892	Socket interior max 250V	2P + Earth	4
183922		Socket interior max 50V	4P + Earth	4
183968		PVC Threaded ring R1-3/8" for insets		5
183974		Brass Threaded ring R1-3/8" for insets		6
183980		Gasket for locking insets		7
183986		Yellow PVC locking ring		8
183992	792894	PVC screw cap R1-3/4" for socket		9
183998		Brass screw cap R1-3/4" for socket		10
183962		Wrench for HNA interior		11

fig. 1

fig. 2

fig. 3

Japanese marine socket IP56

Cat. no.	Impa no.	Description	Pole	Gland position	Fig.
184312	792806	Socket 15A for 1-plug, synthetic resin	2P + Earth	0=	1
184348	792831	Socket 15A for 2-plugs, synthetic resin	2P + Earth	0=	2
184336	792807	Socket 15A for 1-plug, synthetic resin	3P + Earth	0=	3

fig. 1

fig. 2

Japanese marine socket with switch IP56

Cat. no.	Impa no.	Description	Pole	Gland position	Fig.
184372	792808	Socket with switch for 1-plug, synthetic resin	2P + Earth	0=	1
184402	792832	Socket with switch for 2-plugs, synthetic resin	2P + Earth	0=	2

fig. 1

fig. 2

Japanese marine switch IP56

Cat. no.	Impa no.	Description	Pole	Gland position	Fig.
184418	793017	Switch 10A, synthenic resin	2-pole	0=	1
184424	793016	Switch 10A, cast iron	2-pole	0=	1
184432	793069	Push-button switch, synthenic resin	1-pole	0-	2

fig. 1

fig. 2

fig. 3

fig. 4

Japanese marine plugs IP56

Cat. no.	Impa no.	Description	Pole	Fig.
184462	792801	Female plug 15A straight, synthetic resin	2P + Earth	1
184474	792802	Female plug 15A angle, synthetic resin	2P + Earth	2
184480		Female plug 15A angle, metal	2P + Earth	2
184510	792803	Female plug 15A straight, synthetic resin	3P + Earth	3
184516	792804	Female plug 15A angle, synthetic resin	3P + Earth	4

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

Spare parts for Japanese marine wiring accessories

Cat. no.	Impa no.	Description	Pole	Fig.
184542	792823	Male socket interior	2P + Earth	1
184554	792824	Male socket interior	3P + Earth	2
184560	792821	Female plug interior	2P + Earth	3
184572	792822	Female plug interior	3P + Earth	4
184578	792825	Switch interior	2-pole	5
184590		Knob for Japanese switch		6
184596		PVC screw cap for socket		7

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

fig. 10

Japanese sets marine socket with plug

Cat. no.	Impa no.	Description	Pole	Fig.
184612	792811	Marine socket-1M and plug straight-1MA	2P + Earth	1
184620	792813	Marine socket-1M and plug angle-1MB	2P + Earth	2
184616	792812	Marine socket/switch- S1MR and plug straight-1MA	2P + Earth	3
184624	792814	Marine socket/switch-S1MR and plug angle-1MB	2P + Earth	4
184628	792815	Marine socket-2M and plug straight-2MA	3P + Earth	5
184632	792816	Marine socket-2M and plug angle-2MB	3P + Earth	6
184634	792836	Marine twin socket and plug straight-1MA	2P + Earth	7
184636	792838	Marine twin socket and plug angle-1MB	2P + Earth	8
184638	792837	Marine twin socket/switch and plug straight-1MA	2P + Earth	9
184640	792839	Marine twin socket/switch and Plug angle-1MB	2P + Earth	10

Japanese (U.S.C.G.) marine socket IP56

Cat. no.	Impa no.	Description	Pole	Gland position
184324	792856	Socket 15A for 1-plug, synthetic resin	2P + Earth	0=

Japanese (U.S.C.G.) marine socket with switch IP56

Cat. no.	Impa no.	Description	Pole	Gland position
184388	792857	Socket with switch for 1-plug, synthetic resin	2P + Earth	0=

fig. 1

fig. 2

Japanese (U.S.C.G.) marine plugs IP56

Cat. no.	Impa no.	Description	Pole	Fig.
184492	792851	Male plug 15A straight, cast brass	2P + Earth	1
184498	792852	Male plug 15A angle, cast brass	2P + Earth	2

fig. 1

fig. 2

fig. 3

Spare parts for Japanese (U.S.C.G.) marine wiring accessories

Cat. no.	Impa no.	Description	Pole	Fig.
184548	792867	Female socket interior	2P + Earth	1
184566	792866	Male plug interior	2P + Earth	2
184584	792868	Switch interior	2-pole	3

fig. 1

fig. 2

fig. 3

fig. 4

Japanese sets (U.S.C.G.) marine socket with plug

Cat. no.	Impa no.	Description	Pole	Fig.
184650	792861	Marine socket and plug straight	2P + Earth	1
184654	792862	Marine socket and plug angle	2P + Earth	2
184658	792863	Marine socket/switch and plug straight	2P + Earth	3
184662	792864	Marine socket/switch and plug angle	2P + Earth	4

ENGLISH WATERTIGHT WIRING ACCESSORIES MARINE USE

fig. 1

fig. 2

English 'Niphan type' wiring accessories

Cat. no.	Description	Pole	Fig.
185712	Female-socket 3A, chrome brass	2-pole	1
185718	Female-socket 3A, chrome brass	3-pole	1
185724	Female-socket 3A, chrome brass	4-pole	1
185736	Male-plug 3A, chrome brass	2-pole	2
185742	Male-plug 3A, chrome brass	3-pole	2
185748	Male-plug 3A, chrome brass	4-pole	2

ALDIS WIRING ACCESSORIES

fig. 1

fig. 2

Aldis connection wiring accessories

Cat. no.	Description	Pole	Fig.
185772	Male-socket watertight	4-pole	1
185778	Female-plug watertight	4-pole	2

ITALIAN WATERTIGHT WIRING ACCESSORIES MARINE USE

fig. 1

fig. 2

Italian wiring accessories

Cat. no.	Description	Pole	Fig.
185912	Surface socket 10A, cast iron	2P + Earth	1
185924	Male-plug 10A, cast brass	2P + Earth	2

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

Miniature micro switches, with single pole change-over contact

Cat. no.	Description	Type	Ampere	Fig.
186012	Pin plunger, solder terminal	1SX1-T	7	1
186018	Pin plunger, solder terminal	11SM1-T	5	2
186024	Pin plunger, screw terminal	KH-9012-PB(B)	10	3
186036	Pin plunger, solder terminal	KH-9012-PB©	10	4
186048	Hinge roller short lever, solder terminal	KH-9012-HR(S)C	10	5
186060	Hinge long lever, solder terminal	KH-9012-HL(L)C	10	6

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

General micro switches, with single pole change-over contact

Cat. no.	Description	Type	Ampere	Fig.
186084	Pin plunger type	Z15-G	15	1
186096	Spring short plunger type	Z15-GD	15	2
186108	Panel mounting plunger type	Z15-GQ	15	3
186120	Hinger roller long lever type	Z15-GW2	15	4
186132	Hinger roller short lever type	Z15-GW22	15	5
186144	Hinger long lever type	Z15-GW	15	6

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

Enclosed micro switches, with single pole change-over contact

Cat. no.	Description	Type	Ampere	Fig.
186168	Pin plunger type	D4C-1201	5	1
186170	Roller plunger type	D4C-1202	5	2
186182	Pin plunger type	ZE-N-2G	15	3
186196	Roller lever type	ZE-NA22-G	15	4
186208	Roller plunger type	ZE-Q222-G	15	5

LIMIT SWITCHES

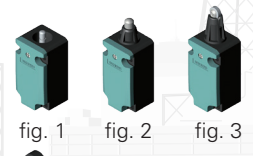


fig. 1 fig. 2 fig. 3

fig. 4 fig. 5 fig. 6

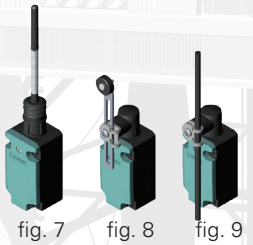


fig. 7 fig. 8 fig. 9

Metal enclosed position switches, with NO/NC contact 10A Narrow housing 40,5 x 78 mm IP67 with 1x M20 entry

Cat. no.	Description	Type	Fig.
186464	Plunger type	3SE5112-0CA00	1
186466	Overtravel pluger type	3SE5112-0CC02	2
186468	Roller plunger type	3SE5112-0CD02	3
186470	Roller lever type	3SE5112-0CE01	4
186472	Angular roller lever type	3SE5112-0CF01	5
186474	Roller crank type, fine adjustment	3SE5112-0CH01	6
186476	Spring rod type	3SE5112-0CR01	7
186478	Roller crank type adjustable lenght	3SE5112-0CH50	8
186480	Moulded-plastic rod type	3SE5112-0CH82	9

fig. 1 fig. 2 fig. 3

fig. 4 fig. 5 fig. 6

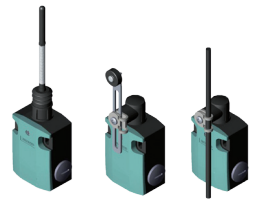


fig. 7 fig. 8 fig. 9

Metal enclosed position switches, with NO/NC contact 10A Wide housing 56 x 78 mm IP67 with 3x M20 entry

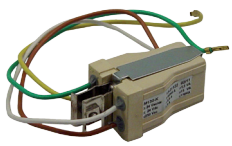
Cat. no.	Description	Type	Fig.
186484	Plunger type	3SE5122-0CA00	1
186486	Overtravel pluger type	3SE5122-0CC02	2
186488	Roller plunger type	3SE5122-0CD02	3
186490	Roller lever type	3SE5122-0CE01	4
186492	Angular roller lever type	3SE5122-0CF01	5
186494	Roller crank type, fine adjustment	3SE5122-0CH01	6
186496	Spring rod type	3SE5122-0CR01	7
186498	Roller crank type adjustable lenght	3SE5122-0CH50	8
186500	Moulded-plastic rod type	3SE5122-0CH82	9

LIMIT SWITCH FOR DAVITS

Heavy duty metal enclosed position switch 25A, IP65 with 4x PG16 entry

Cat. no.	Description
186512	Roller lever type, heavy duty with auxilairy contacts 3xNC - 3xNO size housing 154 x 135 x 120 mm Special use for Davits (lifeboats crane)

LEVER SWITCH FOR BOILERS



Lever switch	
Cat. no.	***Description***
186562	Igema level switch 4-poles for boiler

LEVER SWITCHES

Lever (working) switch in watertight enclosure IP54 with PG16 entries	
Cat. no.	***Description***
187112	On/off lever switch, 3-pole 16A
187124	On/off lever switch, 4-pole 16A
187136	On/off lever switch, 3-pole 25A
187148	On/off lever switch, 4-pole 25A
187160	On/off lever switch, 3-pole 50A
187172	On/off lever switch, 4-pole 50A
187184	On/off lever switch, 3-pole 80A
187196	On/off lever switch, 4-pole 80A

ROTARY SWITCHES

Rotary switches, panel mounting					
Cat. no.	***Impa no.***	***Type***	***Amp.***	***Positions***	***Poles***
188012	793031	on/off	25	0 - 1	1
188014	793041	on/off	45	0 - 1	1
188016	793051	on/off	80	0 - 1	1
188022	793032	on/off	25	0 - 1	2
188024	793042	on/off	45	0 - 1	2
188026	793052	on/off	80	0 - 1	2
188032	793033	on/off	25	0 - 1	3
188034	793043	on/off	45	0 - 1	3
188036	793053	on/off	80	0 - 1	3
188042	793034	on/off	25	0 - 1	4
188044	793044	on/off	45	0 - 1	4
188046	793054	on/off	80	0 - 1	4

continue on next page

ROTARY SWITCHES

Rotary switches, panel mounting

continuation

Cat. no.	Impa no.	Type	Amp.	Positions	Poles
188052	793035	on/off	25	0 - 1	5
188054	793045	on/off	45	0 - 1	5
188062	793036	on/off	25	0 - 1	6
188064	793046	on/off	45	0 - 1	6
188072	793037	on/off	25	0 - 1	7
188082	793038	on/off	25	0 - 1	8

ROTARY HEATER SWITCHES

fig. 1

fig. 2

fig. 3

fig. 4

Galley rotary heater switches

Cat. no.	Type	Positions	Amp.	Poles	Fig.
188312	VBC 125J	0 - 1 - 2 - 3	16	2	1
188324	BC 125J	0 - 1 - 2 - 3	16	2	1
188336	RP 125J90	0 - 1 - 2 - 3	16	2	2
188396	Ego	0 - 1 - 2 - 3	16	2	3
188408	Ego	0 - 1 - 2 - 3	32	3	4
188420	Spare knob for Ego				

Oven rotary switches with capilair

Cat. no.	Description	Amp.	Poles
188444	Oven switch 300°C with capillair	16	3

Pilot lights with round lens, bore Ø 7.0 mm
Intergral filament lamp 24 Volt 0,84 Watt

		Bore	Depth
Cat. no.	Colour	Size mm	Size mm
200112	clear	7.0	27.5
200118	red	7.0	27.5
200124	yellow	7.0	27.5
200130	green	7.0	27.5

Pilot lights with round lens, bore Ø 10.0 mm
Intergral filament lamp 24-28 Volt 1,2 Watt

		Bore	Depth
Cat. no.	Colour	Size mm	Size mm
200212	clear	10.0	30.0
200218	red	10.0	30.0
200224	yellow	10.0	30.0
200230	green	10.0	30.0
200236	blue	10.0	30.0

Pilot lights with square lens, bore Ø 10.0 mm
Intergral filament lamp 24-28 Volt 1,2 Watt

		Bore	Depth
Cat. no.	Colour	Size mm	Size mm
200312	clear	10.0	30.0
200318	red	10.0	30.0
200324	yellow	10.0	30.0
200330	green	10.0	30.0
200336	blue	10.0	30.0

Pilot lights with E10 base, bore Ø 16.4 mm

		Bore	Depth
Cat. no.	Colour	Size mm	Size mm
200412	clear	16.4	33.0
200418	red	16.4	33.0
200430	green	16.4	33.0

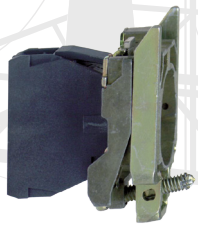
Pilot lights with E14 base, bore Ø 22.3 mm

		Bore	Depth
Cat. no.	Colour	Size mm	Size mm
200500	clear	22.3	46.0
200502	red	22.3	46.0
200504	green	22.3	46.0

PILOT LIGHTS

Pilot lights head elements, bore Ø 22 mm
Maker: Schneider Electric

Cat. no.	Description	Colour	Type
201112	Lens	white	ZB4-BV01
201118	Lens	green	ZB4-BV03
201124	Lens	red	ZB4-BV04
201130	Lens	yellow	ZB4-BV05
201136	Lens	blue	ZB4-BV06
201138	Lens	clear	ZB4-BV07



Fixing adapter with lampholder Ba9s
Maker: Schneider Electric

Cat. no.	Description	Type
201212	Lampholder/fixing adapter < 250V	ZB4-BV6
201218	Lampholder/fixing adapter with transformer 110...120V 50/60Hz / 6V lamp (including)	ZB4-BV3
201224	Lampholder/fixing adapter with transformer 230...240V 50/60Hz / 6V lamp (including)	ZB4-BV4
201230	Lampholder/fixing adapter with transformer 230...240V 50/60Hz / 6V lamp (including)	ZB4-BV5
201236	Lampholder/fixing adapter with transformer 440…480V 60Hz / 6V lamp (including)	ZB4-BV8

PUSHBUTTON / SELECTOR SWITCHES

Pushbutton switch elements, bore Ø 22 mm
Maker: Schneider Electric

Cat. no.	Description	Colour	Type
201312	Pushbutton	white	ZB4-BA1
201318	Pushbutton	black	ZB4-BA2
201324	Pushbutton	green	ZB4-BA3
201330	Pushbutton	red	ZB4-BA4
201336	Pushbutton	yellow	ZB4-BA5
201330	Pushbutton	blue	ZB4-BA6

Double Pushbutton switch elements, bore Ø 22 mm
Maker: Schneider Electric

Cat. no.	Description	Type
201362	Double Push-button green/red	ZB4-BL7341

Emergency-stop switch elements, bore Ø 22 mm
Maker: Schneider Electric

Cat. no.	Description	Type
201384	Red mushroom head Ø 40 mm, spring-return	ZB4-BC4
201390	Red mushroom head Ø 40 mm, push-lock turn-reset	ZB4-BS844

Selector switch elements, bore Ø 22 mm
Maker: Schneider Electric

Cat. no.	Description	Type
201412	Thumb-grip handle stay-put, 0 - 1	ZB4-BD2
201418	Thumb-grip handle stay-put, 1- 0 - 2	ZB4-BD3
201462	Key-operated stay-put, 0 - 1	ZB4-BG2
201468	Key-operated stay-put, 1 - 0 - 2	ZB4-BG3
201482	Toggle-lever stay-put, 0 - 1	ZB4-BD28

Fixing adaptor with contact elements
Maker: Schneider Electric

Cat. no.	Description	NC	NO	Type
201512	Adaptor with Contact element	1		ZB4-BZ101
201518	Adaptor with Contact element		1	ZB4-BZ102
201524	Adaptor with Contact element	2		ZB4-BZ103
201530	Adaptor with Contact element		2	ZB4-BZ104
201536	Adaptor with Contact element	1	1	ZB4-BZ105

Contact elements
Maker: Schneider Electric

Cat. no.	Description	NC	NO	Type
201560	Contact element	1		ZBE101
201566	Contact element		1	ZBE102

Fixing adaptor
Maker: Schneider Electric

Cat. no.	Description	Type
201596	Fixing adaptor for contact elements	ZB4-BZ009

Contact elements (old type)
Maker: Schneider Electric

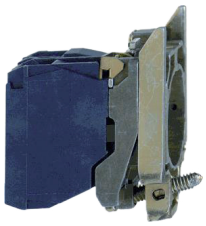
Cat. no.	Description	NC	NO	Type
201010	Contact element	1		ZB2-BE101
201012	Contact element		1	ZB2-BE102

Adaptor plate Ø 30.5 - Ø 22.5 mm
Maker: Schneider Electric

Cat. no.	Description	Type
201600	Adaptor plate Ø 30.5 - Ø 22.5 mm	ZB4-BZ011

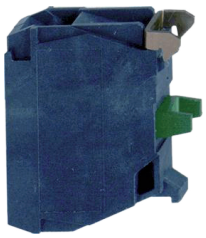
Illuminated pushbutton switch element, bore Ø 22 mm
Maker: Schneider Electric

Cat. no.	Description	Colour	Type
201612	Illuminated pushbutton	white	ZB4-BW31
201618	Illuminated pushbutton	green	ZB4-BW33
201624	Illuminated pushbutton	red	ZB4-BW34
201630	Illuminated pushbutton	yellow	ZB4-BW35
201636	Illuminated pushbutton	blue	ZB4-BW36
201638	Illuminated pushbutton	clear	ZB4-BW37



Fixing adapter with lampholder Ba9s and contacts
Maker: Schneider Electric

		Type contact		
Cat. no.	Description	NO	NC	Type
201662	Lampholder/fixing adapter < 250V	1	1	ZB4-BW065
201668	Lampholder/fixing adapter with transformer 110...120V 50/60Hz / 6V lamp (including)	1	1	ZB4-BW035
201674	Lampholder/fixing adapter with transformer 230...240V 50/60Hz / 6V lamp (including)	1	1	ZB4-BW045
201680	Lampholder/fixing adapter with transformer 400V 50Hz / 6V lamp (including)	1	1	ZB4-BW055
201686	Lampholder/fixing adapter with transformer 440…480V 60Hz / 6V lamp (including)	1		ZB4-BW081



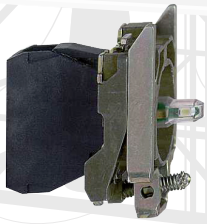
Extra Contact elements
Maker: Schneider Electric

Cat. no.	Description	NC	NO	Type
201560	Contact element	1		ZBE101
201566	Contact element		1	ZBE102

LED PILOT LIGHTS

LED Pilot lights head elements, bore Ø 22 mm
Maker: Schneider Electric

Cat. no.	Description	Colour	Type
202112	LED lens	white	ZB4-BV013
202116	LED lens	green	ZB4-BV033
202118	LED lens	red	ZB4-BV043
202120	LED lens	yellow	ZB4-BV053
202122	LED lens	blue	ZB4-BV063



LED Fixing adapter with LED module
Maker: Schneider Electric

Cat. no.	Description	Colour	Type
202232	Led fixing adapter with LED 24V AC/DC	white	ZB4-BVB1
202236	Led fixing adapter with LED 24V AC/DC	green	ZB4-BVB3
202238	Led fixing adapter with LED 24V AC/DC	red	ZB4-BVB4
202240	Led fixing adapter with LED 24V AC/DC	yellow	ZB4-BVB5
202242	Led fixing adapter with LED 24V AC/DC	blue	ZB4-BVB6
202272	Led fixing adapter with LED 110…120V AC	white	ZB4-BVG1
202276	Led fixing adapter with LED 110…120V AC	green	ZB4-BVG3
202278	Led fixing adapter with LED 110…120V AC	red	ZB4-BVG4
202280	Led fixing adapter with LED 110…120V AC	yellow	ZB4-BVG5
202282	Led fixing adapter with LED 110…120V AC	blue	ZB4-BVG6
202302	Led fixing adapter with LED 230…240V AC	white	ZB4-BVM1
202306	Led fixing adapter with LED 230…240V AC	green	ZB4-BVM3
202308	Led fixing adapter with LED 230…240V AC	red	ZB4-BVM4
202310	Led fixing adapter with LED 230…240V AC	yellow	ZB4-BVM5
202312	Led fixing adapter with LED 230…240V AC	blue	ZB4-BVM6

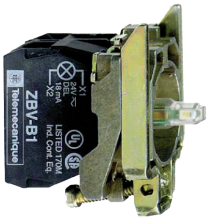
LED ILLUMINATED PUSHBUTTON SWITCHES

LED illuminated pushbutton switch element, bore Ø 22 mm
Maker: Schneider Electric

Cat. no.	Description	Colour	Type
202412	LED Illuminated pushbutton	white	ZB4-BW313
202416	LED Illuminated pushbutton	green	ZB4-BW333
202418	LED Illuminated pushbutton	red	ZB4-BW343
202420	LED Illuminated pushbutton	yellow	ZB4-BW353
202422	LED Illuminated pushbutton	blue	ZB4-BW363

LED illuminated double pushbutton switch element, bore ø 22mm
Maker: Schneider Electric

Cat. no.	Description	Colour	Type
202432	Led illuminated double pushbutton	green/red	ZB4-BW7A3741



LED Fixing adapter with LED module and contacts
Maker: Schneider Electric

			Type contact		
Cat. no.	Description	Colour	NO	NC	Type
202532	Led fixing adapter with LED 24V AC/DC	white	1		ZB4-BW0B11
202536	Led fixing adapter with LED 24V AC/DC	green	1		ZB4-BW0B31
202538	Led fixing adapter with LED 24V AC/DC	red	1		ZB4-BW0B41
202540	Led fixing adapter with LED 24V AC/DC	yellow	1		ZB4-BW0B51
202542	Led fixing adapter with LED 24V AC/DC	blue	1		ZB4-BW0B61
202552	Led fixing adapter with LED 24V AC/DC	white	1	1	ZB4-BW0B15
202556	Led fixing adapter with LED 24V AC/DC	green	1	1	ZB4-BW0B35
202558	Led fixing adapter with LED 24V AC/DC	red	1	1	ZB4-BW0B45
202560	Led fixing adapter with LED 24V AC/DC	yellow	1	1	ZB4-BW0B55
202562	Led fixing adapter with LED 24V AC/DC	blue	1	1	ZB4-BW0B65
202572	Led fixing adapter with LED 110…120V AC	white	1		ZB4-BW0G11
202576	Led fixing adapter with LED 110…120V AC	green	1		ZB4-BW0G31
202578	Led fixing adapter with LED 110…120V AC	red	1		ZB4-BW0G41
202580	Led fixing adapter with LED 110…120V AC	yellow	1		ZB4-BW0G51
202582	Led fixing adapter with LED 110…120V AC	blue	1		ZB4-BW0G61

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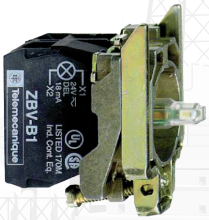
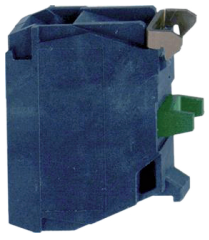


LED Fixing adapter with LED module and contacts
Maker: Schneider Electric

continuation

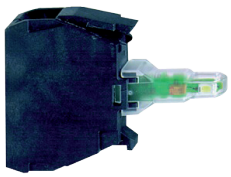
		Type contact			
Cat. no.	***Description***	***Colour***	***NO***	***NC***	***Type***
202592	Led fixing adapter with LED 110…120V AC	white	1	1	ZB4-BW0G15
202596	Led fixing adapter with LED 110…120V AC	green	1	1	ZB4-BW0G35
202598	Led fixing adapter with LED 110…120V AC	red	1	1	ZB4-BW0G45
202600	Led fixing adapter with LED 110…120V AC	yellow	1	1	ZB4-BW0G55
202602	Led fixing adapter with LED 110…120V AC	blue	1	1	ZB4-BW0G65
202612	Led fixing adapter with LED 230…240V AC	white	1		ZB4-BW0M11
202616	Led fixing adapter with LED 230…240V AC	green	1		ZB4-BW0M31
202618	Led fixing adapter with LED 230…240V AC	red	1		ZB4-BW0M41
202620	Led fixing adapter with LED 230…240V AC	yellow	1		ZB4-BW0M51
202622	Led fixing adapter with LED 230…240V AC	blue	1		ZB4-BW0M61
202632	Led fixing adapter with LED 230…240V AC	white	1	1	ZB4-BW0M15
202636	Led fixing adapter with LED 230…240V AC	green	1	1	ZB4-BW0M35
202638	Led fixing adapter with LED 230…240V AC	red	1	1	ZB4-BW0M45
202640	Led fixing adapter with LED 230…240V AC	yellow	1	1	ZB4-BW0M55
202642	Led fixing adapter with LED 230…240V AC	blue	1	1	ZB4-BW0M65



Extra Contact elements
Maker: Schneider Electric

Cat. no.	***Description***	***NC***	***NO***	***Type***
201560	Contact element	1		ZBE101
201566	Contact element		1	ZBE102

LED LIGHT BLOCK MODULE



LED light block module
Maker: Schneider Electric

Cat. no.	Description	Colour	Type
202672	LED Light block 24V AC/DC	white	ZBV-B1
202676	LED Light block 24V AC/DC	green	ZBV-B3
202678	LED Light block 24V AC/DC	red	ZBV-B4
202680	LED Light block 24V AC/DC	yellow	ZBV-B5
202682	LED Light block 24V AC/DC	blue	ZBV-B6
202712	LED Light block 110...120V AC	white	ZBV-G1
202716	LED Light block 110...120V AC	green	ZBV-G3
202718	LED Light block 110...120V AC	red	ZBV-G4
202720	LED Light block 110...120V AC	yellow	ZBV-G5
202722	LED Light block 110...120V AC	blue	ZBV-G6
202732	LED Light block 220...240V AC	white	ZBV-M1
202736	LED Light block 220...240V AC	green	ZBV-M3
202738	LED Light block 220...240V AC	red	ZBV-M4
202740	LED Light block 220...240V AC	yellow	ZBV-M5
202742	LED Light block 220...240V AC	blue	ZBV-M6

CONTROL STATIONS

fig. 1

fig. 2

fig. 3

fig. 4

Assembled control stations IP65
Maker: Schneider Electric

Cat. no.	Impa no.	Description	Type	Contacts	Fig.
203112		Control station 1 pushbutton	I	NO	1
203124	793076	Control station 2 pushbuttons	I / O	NO / NC	2
203136		Control station 3 pushbuttons	I / O / II	NO / NC / NO	3
203148		Control station emergency stop with red mushroom head, push-lock turn-reset	red	NC	4

Assembled pendant control stations IP65
Maker: Schneider Electric

Cat. no.	Impa no.	Description	Type
203212	793087	2 buttons for indirect control circuits	1x NO - 10A
203218		4 buttons for indirect control circuits	1x NO / 1x NC - 10A
203224	793088	6 buttons for indirect control circuits	1x NO / 1x NC - 10A
203230		8 buttons for indirect control circuits	1x NO / 1x NC - 10A
203312	793085	2 buttons for direct control circuits	2x NO / 2,2kW 380V
203318		4 buttons for direct control circuits	2x NO / 2,2kW 380V
203324	793086	6 buttons for direct control circuits	2x NO / 2,2kW 380V

Plug-in relays with change over contacts 10 Amp., with round pins
2 poles, 8 pins AC voltage

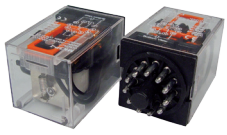
Cat. no.	Coil voltage
210112	6V AC 50/60Hz
210118	12V AC 50/60Hz
210124	24V AC 50/60Hz
210142	110V AC 50/60Hz
210148	230V AC 50/60Hz

Plug-in relays with change over contacts 10 Amp., with round pins
3 poles, 11 pins AC voltage

Cat. no.	Coil voltage
210212	6V AC 50/60Hz
210218	12V AC 50/60Hz
210224	24V AC 50/60Hz
210242	110V AC 50/60Hz
210248	230V AC 50/60Hz

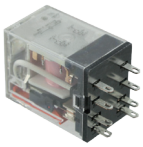
Plug-in relays with change over contacts 10 Amp., with round pins
2 poles, 8 pins DC voltage

Cat. no.	Coil voltage
210312	6V DC
210318	12V DC
210324	24V DC
210342	110V DC
210348	220V DC



Plug-in relays with change over contacts 10 Amp., with round pins
3 poles, 11 pins DC voltage

Cat. no.	Coil voltage
210412	6V DC
210418	12V DC
210424	24V DC
210442	110V DC
210448	220V DC



Mini plug-in relays with change over contacts 10 Amp. 2 poles, 8 pins	
Cat. no.	***Coil voltage***
210580	12V DC
210584	24V DC
210588	24V AC 50/60Hz
210592	110V AC 50/60Hz
210596	230V AC 50/60Hz

Mini plug-in relays with change over contacts 5 Amp. 4 poles, 14 pins	
Cat. no.	***Coil voltage***
210618	12V DC
210624	24V DC
210648	24V AC 50/60Hz
210660	110V AC 50/60Hz
210672	230V AC 50/60Hz

Plug-in relays with change over contacts, with round pins 2 poles, 8 pins for navigation control	
Cat. no.	***For lamp***
210724	24V 40W DC
210736	110V 60W AC
210748	220V 65W AC

Sockets for plug-in relays	
Cat. no.	***Description***
210812	Surface and DIN rail mounting, 8-pins
210824	Surface and DIN rail mounting, 11-pins
210836	Flush mounting, 8-pins
210848	Flush mounting, 11-pins
210856	Surface and DIN rail mounting, for mini relays 8-pins
210860	Surface and DIN rail mounting, for mini relays 14-pins

Auxiliary relays with AC coil voltages
Maker: Schneider Electric

		Rating current		Auxilairy poles	
Cat. no.	Type	380V	Coil voltage	NO	NC
215104	CAD-50B7	10A	24V 50/60Hz	5	0
215112	CAD-50F7	10A	110V 50/60Hz	5	0
215118	CAD-50P7	10A	230V 50/60Hz	5	0
215124	CAD-50V7	10A	400V 50/60Hz	5	0
215130	CAD-50R7	10A	440V 50/60Hz	5	0
215154	CAD-32B7	10A	24V 50/60Hz	3	2
215162	CAD-32F7	10A	110V 50/60Hz	3	2
215166	CAD-32P7	10A	230V 50/60Hz	3	2
215172	CAD-32V7	10A	400V 50/60Hz	3	2
215178	CAD-32R7	10A	440V 50/60Hz	3	2

Auxiliary relays with DC coil voltages
Maker: Schneider Electric

		Rating current		Auxilairy poles	
Cat. no.	Type	380V	Coil voltage	NO	NC
215206	CAD-50BD	10A	24V DC	5	0
215218	CAD-32BD	10A	24V DC	3	2

Contactors 3-pole till 18,5kW with AC coil voltage
Maker: Schneider Electric

		Rating 3-ph. 400V			Auxilairy poles	
Cat. no.	Type	Amp.	kW	Coil voltage	NO	NC
215312	LC1-D09B7	9	4	24V 50/60Hz	1	1
215318	LC1-D09F7	9	4	110V 50/60Hz	1	1
215324	LC1-D09P7	9	4	230V 50/60Hz	1	1
215330	LC1-D09V7	9	4	400V 50/60Hz	1	1
215336	LC1-D09R7	9	4	440V 50/60Hz	1	1
215362	LC1-D12B7	12	5,5	24V 50/60Hz	1	1
215366	LC1-D12F7	12	5,5	110V 50/60Hz	1	1
215372	LC1-D12P7	12	5,5	230V 50/60Hz	1	1
215378	LC1-D12V7	12	5,5	400V 50/60Hz	1	1
215384	LC1-D12R7	12	5,5	440V 50/60Hz	1	1
215412	LC1-D18B7	18	7,5	24V 50/60Hz	1	1
215418	LC1-D18F7	18	7,5	110V 50/60Hz	1	1
215424	LC1-D18P7	18	7,5	230V 50/60Hz	1	1
215430	LC1-D18V7	18	7,5	400V 50/60Hz	1	1
215436	LC1-D18R7	18	7,5	440V 50/60Hz	1	1

215462	LC1-D25B7	25	11	24V 50/60Hz	1	1
215466	LC1-D25F7	25	11	110V 50/60Hz	1	1
215472	LC1-D25P7	25	11	230V 50/60Hz	1	1
215478	LC1-D25V7	25	11	400V 50/60Hz	1	1
215484	LC1-D25R7	25	11	440V 50/60Hz	1	1
215514	LC1-D32B7	32	15	24V 50/60Hz	1	1
215518	LC1-D32F7	32	15	110V 50/60Hz	1	1
215524	LC1-D32P7	32	15	230V 50/60Hz	1	1
215530	LC1-D32V7	32	15	400V 50/60Hz	1	1
215536	LC1-D32R7	32	15	440V 50/60Hz	1	1
215566	LC1-D38F7	38	18,5	110V 50/60Hz	1	1
215572	LC1-D38P7	38	18,5	230V 50/60Hz	1	1
215578	LC1-D38V7	38	18,5	400V 50/60Hz	1	1
215584	LC1-D38R7	38	18,5	440V 50/60Hz	1	1

Contactors 3-pole till 75kW with AC coil voltage
Maker: Schneider Electric

		Rating 3-ph. 400V			Auxilairy poles	
Cat. no.	Type	Amp.	kW	Coil voltage	NO	NC
215618	LC1-D40AF7	40	18,5	110V 50/60Hz	1	1
215624	LC1-D40AP7	40	18,5	230V 50/60Hz	1	1
215630	LC1-D40AV7	40	18,5	400V 50/60Hz	1	1
215636	LC1-D40AR7	40	18,5	440V 50/60Hz	1	1
215666	LC1-D50AF7	50	22	110V 50/60Hz	1	1
215672	LC1-D50AP7	50	22	230V 50/60Hz	1	1
215678	LC1-D50AV7	50	22	400V 50/60Hz	1	1
215684	LC1-D50AR7	50	22	440V 50/60Hz	1	1
215718	LC1-D65AF7	65	30	110V 50/60Hz	1	1
215724	LC1-D65AP7	65	30	230V 50/60Hz	1	1
215730	LC1-D65AV7	65	30	400V 50/60Hz	1	1
215736	LC1-D65AR7	65	30	440V 50/60Hz	1	1
215766	LC1-D80F7	80	37	110V 50/60Hz	1	1
215772	LC1-D80P7	80	37	230V 50/60Hz	1	1
215778	LC1-D80V7	80	37	400V 50/60Hz	1	1
215784	LC1-D80R7	80	37	440V 50/60Hz	1	1
215818	LC1-D95F7	95	45	110V 50/60Hz	1	1
215824	LC1-D95P7	95	45	230V 50/60Hz	1	1
215830	LC1-D95V7	95	45	400V 50/60Hz	1	1
215836	LC1-D95R7	95	45	440V 50/60Hz	1	1
215866	LC1-D115F7	115	55	110V 50/60Hz	1	1
215872	LC1-D115P7	115	55	230V 50/60Hz	1	1
215878	LC1-D115V7	115	55	400V 50/60Hz	1	1
215884	LC1-D115R7	115	55	440V 50/60Hz	1	1
215918	LC1-D150F7	150	75	110V 50/60Hz	1	1
215924	LC1-D150P7	150	75	230V 50/60Hz	1	1
215930	LC1-D150V7	150	75	400V 50/60Hz	1	1
215936	LC1-D150R7	150	75	440V 50/60Hz	1	1

Contactors 3-pole till 75kW without coil
Maker: Schneider Electric

		Rating 3-ph. 400V			Auxilairy poles	
Cat. no.	Type	Amp.	kW	Coil voltage	NO	NC
215958	LC1-F115	115	55	see below	0	0
215964	LC1-F150	150	75	see below	0	0

Coils for above contactors LC1-F115 and LC1-F150

Cat. no.	Type	Coil voltage
215970	LX1-FF024	24V 50Hz
215972	LX1-FF092	110V 60Hz
215974	LX1-FF220	220/230V 50Hz
215976	LX1-FF184	220V 60Hz
215978	LX1-FF380	380/400V 50Hz
215980	LX1-FF360	440V 60Hz

Contactors 3-pole till 110kW without coil
Maker: Schneider Electric

		Rating 3-ph. 400V			Auxilairy poles	
Cat. no.	Type	Amp.	kW	Coil voltage	NO	NC
216018	LC1-F185	185	90	see below	0	0
216024	LC1-F225	225	110	see below	0	0

Coils for above contactors LC1-F115 and LC1-F225

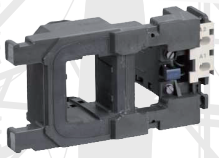
Cat. no.	Type	Coil voltage
216036	LX1-FG024	24V 50Hz
216042	LX1-FG110	110V 60Hz
216048	LX1-FG220	220/230V 50Hz
216054	LX1-FG184	220V 60Hz
216060	LX1-FG380	380/400V 50Hz
216066	LX1-FG360	440V 60Hz

Contactors 3-pole till 160kW without coil
Maker: Schneider Electric

		Rating 3-ph. 400V			Auxilairy poles	
Cat. no.	Type	Amp.	kW	Coil voltage	NO	NC
216118	LC1-F265	265	132	see below	0	0
216124	LC1-F330	330	160	see below	0	0

Coils for above contactors LC1-F265 and LC1-F330

Cat. no.	Type	Coil voltage
216142	LX1-FH1102	110/115V 50/60Hz
216148	LX1-FH2202	220/230V 50/60Hz
216160	LX1-FH3802	380/415V 50/60Hz
216166	LX1-FH4402	440V 50/60Hz



Contactors 3-pole till 200kW without coil
Maker: Schneider Electric

		Rating 3-ph. 400V			Auxilairy poles	
Cat. no.	Type	Amp.	kW	Coil voltage	NO	NC
216218	LC1-F400	400	200		0	0

Coils for above contactor LC1-F400

Cat. no.	Type	Coil voltage
216242	LX1-FJ110	110/120V 50/60Hz
216248	LX1-FJ220	220/230V 50/60Hz
216260	LX1-FJ380	380/400V 50/60Hz
216266	LX1-FJ415	415/440V 50/60Hz

Contactors 3-pole till 250kW without coil
Maker: Schneider Electric

		Rating 3-ph. 400V			Auxilairy poles	
Cat. no.	Type	Amp.	kW	Coil voltage	NO	NC
216318	LC1-F500	500	250		0	0

Coils for above contactor LC1-F500

Cat. no.	Type	Coil voltage
216342	LX1-FK110	110/115V 50/60Hz
216348	LX1-FK220	200/230V 50/60Hz
216360	LX1-FK380	380/400V 50/60Hz
216366	LX1-FK415	415/440V 50/60Hz

Thermal overload relays, 3-pole
Maker: Schneider Electric

Cat. no.	Type	Setting range	For contactor
217112	LRD-01	0,10...0,16 A	D09...D38
217118	LRD-02	0,16...0,25 A	D09...D38
217124	LRD-03	0,25...0,40 A	D09...D38
217130	LRD-04	0,40...0,63 A	D09...D38
217136	LRD-05	0,63...1,00 A	D09...D38
217142	LRD-06	1...1,7 A	D09...D38
217148	LRD-07	1,6...2,5 A	D09...D38
217154	LRD-08	2,5...4 A	D09...D38
217160	LRD-10	4...6 A	D09...D38
217166	LRD-12	5,5...8 A	D09...D38
217172	LRD-14	7...10 A	D09...D38
217178	LRD-16	9...13 A	D12...D38
217184	LRD-21	12...18 A	D18...D38
217190	LRD-22	16...24 A	D25...D38
217196	LRD-32	23...32 A	D25...D38
217202	LRD-35	30...38 A	D32 and D38

217208	LRD-325	17...25 A	D40A...D65A
217214	LRD-332	23...32 A	D40A...D65A
217220	LRD-340	30...40 A	D40A...D65A
217226	LRD-350	37...50 A	D40A...D65A
217232	LRD-365	48...65 A	D50A and D65A

217238	LRD-3361	55...70 A	D80...D95
217244	LRD-3363	63...80 A	D80...D95
217250	LRD-3365	80...104 A	D80...D95

Thermal overload relays, 3-pole
Maker: Schneider Electric

Cat. no.	Type	Setting range	For contactor
217312	LRD-4365	80...104 A	D115 and D150
217318	LRD-4367	95...120 A	D115 and D150
217324	LRD-4369	110...140 A	D150

217340	LR9-F5367	60...100 A	seperate mounting
217344	LR9-F5369	90...150 A	seperate mounting
217348	LR9-F5371	132...220 A	seperate mounting

217354	LR9-F7375	200...330 A	seperate mounting
217360	LR9-F7379	300...500 A	seperate mounting

Support for separate mounting of thermal overload relay
Maker: Schneider Electric

Cat. no.	Type	Application
217412	LAD-7B106	For thermal overload relay LRD-01..35, LR3-D01..D35
217430	LA7-D3064	For Thermal overload relay LRD3..., LR2-D3... and LR3-D3
217436	LAD-96560	Terminal block for separate mounting of LRD3... i.c.w. support LA7-D3064

Auxiliary contact blocks, for contactor LC1-D, LC1-F and auxiliary relays CAD, front mounting
Maker: Schneider Electric

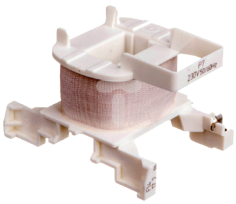
			Auxilairy poles	
Cat. no.	Type	Description	NO	NC
217512	LAD-N10	Auxiliary contact block	1	0
217518	LAD-N01	Auxiliary contact block	0	1
217524	LAD-N11	Auxiliary contact block	1	1
217526	LAD-N20	Auxiliary contact block	2	0
217528	LAD-N02	Auxiliary contact block	0	2
217530	LAD-N22	Auxiliary contact block	2	2
217536	LAD-N31	Auxiliary contact block	3	1
217542	LAD-N13	Auxiliary contact block	1	3
217548	LAD-N40	Auxiliary contact block	4	0
217554	LAD-N04	Auxiliary contact block	0	4

Auxiliary contact blocks, for contactor LC1-D, and auxiliary relays CAD, side mounting
Maker: Schneider Electric

			Auxilairy poles	
Cat. no.	Type	Description	NO	NC
217578	LAD-8N11	Auxiliary contact block	1	1
217584	LAD-8N20	Auxiliary contact block	2	0

Pneumatic time delay contact blocks, for contactor LC1-D, LC1-F and auxiliary relays CAD,
Maker: Schneider Electric

			Auxilairy poles	
Cat. no.	**Type**	**Description**	**NO**	**NC**
217612	LAD-T2	0,1 - 30 seconds, on-delay	1	1
217624	LAD-T4	10 - 180 seconds, on-delay	1	1
217636	LAD-R2	0,1 - 30 seconds, off-delay	1	1
217648	LAD-R4	10 - 180 seconds, off-delay	1	1

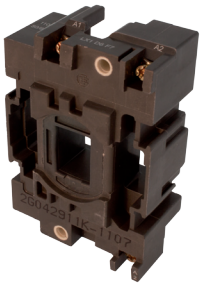


Coils for contactors LC1-D09…D38, and for auxiliary relays CAD
Maker: Schneider Electric

Cat. no.	Type	Coil Voltage
216412	LXD-1B7	24V 50/60Hz
216424	LXD-1F7	110V 50/60Hz
216430	LXD-1P7	230V 50/60Hz
216436	LXD-1V7	400V 50/60Hz
216442	LXD-1R7	440V 50/60Hz

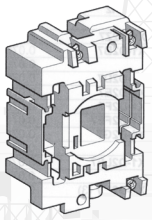
Coils for contactors LC1-D40A…D65A
Maker: Schneider Electric

Cat. no.	Type	Coil Voltage
216446	LXD-3B7	24V 50/60Hz
216448	LXD-3F7	110V 50/60Hz
216450	LXD-3P7	230V 50/60Hz
216452	LXD-3V7	400V 50/60Hz
216454	LXD-3R7	440V 50/60Hz



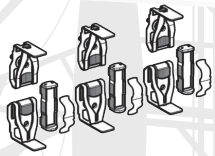
Coils for contactors LC1-D40…D95
Maker: Schneider Electric

Cat. no.	Type	Coil Voltage
216460	LX1-D6B7	24V 50/60Hz
216472	LX1-D6F7	110V 50/60Hz
216478	LX1-D6P7	230V 50/60Hz
216484	LX1-D6V7	400V 50/60Hz
216490	LX1-D6R7	440V 50/60Hz



Coils for contactors LC1-D115 and D150
Maker: Schneider Electric

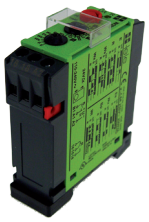
Cat. no.	Type	Coil Voltage
216512	LX1-D8B7	24V 50/60Hz
216524	LX1-D8F7	110V 50/60Hz
216530	LX1-D8P7	230V 50/60Hz
216536	LX1-D8V7	400V 50/60Hz
216542	LX1-D8R7	440V 50/60Hz



Main contacts set for contactors, set contents 6 fixed and 3 moving contacts
Maker: Schneider Electric

Cat. no.	Type	Coil Voltage
217710	LA5-FF431	For Contactor LC1-F115 and F150
217714	LA5-FG431	For Contactor LC1-F185 and F225
217718	LA5-FH431	For Contactor LC1-F265
217722	LA5-F400803	For Contactor LC1-F330 and F400
217726	LA5-F500803	For Contactor LC1-F500

Electronic time relays "multifunctional" with change-over contact			
Cat. no.	***Description***	***Contact (250V AC1)***	***Voltage***
225124	Timer 0,1 sec - 10 days	Single-pole 16 Amps (4000VA)	12-250V AC/DC
225128	Timer 0,1 sec - 10 days	Four-pole 8 Amps (2000VA)	12-250V AC/DC



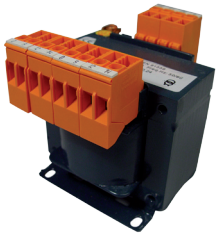
Tele Electronic time relays "multifunctional" with change-over contact		
Cat. no.	***Description***	***Voltage***
225112	Timer 0,1 sec - 10 days	24V AC/DC, 110-240V AC

Omron Electronic time relays with change-over contact			
Cat. no.	***Description***	***Voltage***	***Type***
225280	with 8-pins connection, 0,05 sec - 300 hrs	12-48V DC/24-48V AC	H3CR-A8
225286	with 8-pins connection, 0,05 sec - 300 hrs	100-125V DC/100-240V AC	H3CR-A8

225260	with 11-pins connection, 0,05 sec - 300 hrs	12-48V DC/24-48V AC	H3CR-A
225266	with 11-pins connection, 0,05 sec - 300 hrs	100-125V DC/100-240V AC	H3CR-A

Motor-protective circuit-breaker, with thermal overload	
Cat. no.	***Current setting range***
226112	0,10...0,16 Amp
226118	0,16...0,25 Amp
226124	0,24...0,40 Amp
226130	0,40...0,63 Amp
226136	0,63...1,00 Amp
226142	1,00...1,60 Amp
226148	1,60...2,50 Amp
226154	2,50...4,00 Amp
226160	4,00...6,30 Amp
226166	6,30...10,0 Amp
226172	10,0...16,0 Amp
226178	16,0...20,0 Amp
226184	20,0...25,0 Amp
226196	Auxillary contact 1xNO 1xNC, for above
226208	Enclosure IP55 with internal earth terminal, for above

Motor-protective circuit-breaker in box IP55, with thermal overload		
Cat. no.	***Impa no.***	***Current setting range***
226216	793077	4,00...6,30 Amp
226218	793079	6,30...10,0 Amp



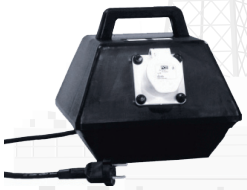
Transformers, single phase

Cat. no.	Impa no.	Pr. Voltage	Sec. Voltage	VA
230118		110	24	100
230224		230	12	160
230312		230 / 400	24	50
230318		230 / 400	24	100
230324		230 / 400	24	160
230330		230 / 400	24	250
230342		230 / 400	24	500
230368		230 / 400 / 440	2x 9 / 12 / 14	100
230374		230 / 400 / 440	2x 9 / 12 / 14	160
230380		230 / 400 / 440	2x 9 / 12 / 14	250
230392		230 / 400 / 440	2x 9 / 12 / 14	400
230418		230 / 400	42	100
230424		230 / 400	42	160
230430		230 / 400	42	250
230442		230 / 400	42	500
230512		230 / 400	2x 115 or 1x 230	63
230518	793301	230 / 400	2x 115 or 1x 230	100
230524		230 / 400	2x 115 or 1x 230	160
230530	793302	230 / 400 / 460	2x 115 or 1x 230	250
230536	793303	230 / 400 / 460	2x 115 or 1x 230	400
230548	793304	230 / 400 / 460	2x 115 or 1x 230	630
230560	793305	230 / 400 / 460	2x 115 or 1x 230	1000
230564		230 / 400 / 460	2x 115 or 1x 230	1600
230570		230 / 400 / 460	2x 115 or 1x 230	2500
230812		400 / 440	2x 115 or 1x 230	50
230818		400 / 440	2x 115 or 1x 230	100
230822		400 / 440	2x 115 or 1x 230	160

Safety Transformer in Rubber box IP44, type Pyramide with 5 meter H07RN-F cable and schuko plug/h/earth

Cat. no.	Pr. Voltage	Sec. Voltage	VA	Output
231488	230	24	160	2 cee-norm
231510	230	42	160	2 cee-norm

TRANSFORMERS



Safety Transformer in Rubber box IP44, type Beta with 5 meter H07RN-F cable and schuko plug/earth

Cat. no.	Pr. Voltage	Sec. Voltage	VA	Output
231516	230	24	400	2 cee-norm
231520	230	42	300	2 cee-norm

Safety Transformer in Rubber box IP44, type Ypsilon with 5 meter H07RN-F cable and schuko plug/earth

Cat. no.	Pr. Voltage	Sec. Voltage	VA	Output
231526	230	24	600	4 cee-norm
231530	230	24	1300	4 cee-norm
231536	230	42	600	2 cee-norm
231540	230	42	1300	4 cee-norm

Foreign voltage converter, step down

Cat. no.	Impa no.	Pr. Voltage	Sec. Voltage	Max. wattage
231956	793321	200 - 240	100 - 120	45W
231962	793322	200 - 240	100 - 120	75W
231968	793323	200 - 240	100 - 120	100W
231974	793324	200 - 240	100 - 120	300W

Foreign voltage converter, step down & adaptor set

Cat. no.	Impa no.	Pr. Voltage	Sec. Voltage	Max. wattage
233512	793326	220 - 240	110 - 120	1600W

Transformers, single phase, in case complete with receptacle and plug

Cat. no.	Impa no.	Pr. Voltage	Sec. Voltage	VA
232118		110, 200, 220 & 240	220 or 110	200
232130	793331	110, 200, 220 & 240	220 or 110	500
232136	793332	110, 200, 220 & 240	220 or 110	1000
232142	793333	110, 200, 220 & 240	220 or 110	1500
232146	793334	110, 200, 220 & 240	220 or 110	2000
232150		110, 200, 220 & 240	220 or 110	3000

ADAPTORS

Adaptor used for calculators, audio ect., with 5-way plug					
Cat. no.	Impa no.	Pr. Voltage	Sec. Voltage	mA	Wattage
233826	471866	100…240V 50/60Hz	3 - 12V DC	600	7,2W
233836	793206	100…240V 50/60Hz	3 - 12V DC	1000	12W
233840		100…240V 50/60Hz	3 - 12V DC	1500	18W

POWER SUPPLIES

Power supply for desk mounting				
Cat. no.		Pr. Voltage	Sec. Voltage	Ampere
233912		220-240V AC	13,8V DC	6 (8)

Power supplies for DIN rail mounting					
Cat. no.	Impa no.	Pr. Voltage	Sec. Voltage	Ampere	Wattage
233926	793202	85…264V AC	12V DC	2	30W
233928		85…264V AC	12V DC	3,5	45W
233930	793232	85…264V AC	12V DC	6,3	75W
233932		120…240V AC	12V DC	10	120W
233946	793224	85…264V AC	24V DC	1,5	36W
233948	793234	85…264V AC	24V DC	2,5	60W
233949	793244	120…240V AC	24V DC	5	120W
233952	793265	85…264V AC	24V DC	10	240W
233956		180…264V AC	24V DC	20	480W

Power supplies, enclosed type					
Cat. no.	Impa no.	Pr. Voltage	Sec. Voltage	Ampere	Wattage
233962	793295	90…264V AC	24V DC	31,3	750W
233966		90…264V AC	24V DC	40	960W

POWER SUPPLIES

Power supplies, open transformer type					
Cat. no.	*Impa no.*	*Pr. Voltage*	*Sec. Voltage*	*Ampere*	*Wattage*
233934	793242	100…240V AC	12V DC	12,5	140W
233938	793263	100…240V AC	12V DC	25	250W
233940	793283	100…240V AC	12V DC	40	400W
233950	793254	100…240V AC	24V DC	6,5	155W
233954	793285	100…240V AC	24V DC	20	400W

UPS Power supplies				
Cat. no.	*Impa no.*	*Pr. Voltage*	*Sec. Voltage*	*VA*
234212		184…264V AC	220V +/- 10%	600
234216		184…264V AC	220V +/- 10%	850
234220		184…264V AC	220V +/- 10%	1000
234224		184…264V AC	220V +/- 10%	1600
234228		184…264V AC	220V +/- 10%	2200
234236		184…264V AC	220V +/- 10%	3000

ELECTRONIC HALOGEN TRANSFORMERS

Electronic transformers for low-voltage halogen lamps			
Cat. no.	*Pr. Voltage*	*Sec. Voltage*	*Max. wattage*
233212	120V 50/60Hz	11,5V	60W
233312	230V 50/60Hz	11,5V	70W
233318	230V 50/60Hz	11,5V	105W
233324	230V 50/60Hz	11,5V	150W
233330	230V 50/60Hz	11,5V	210W

LED DRIVERS

LED driver for low-voltage LED lamps				
Cat. no.	*Pr. Voltage*	*Sec. Voltage*	*Wattage*	*Type*
233420	220-240V 50/60Hz	12V DC	50W	Constant voltage
233430	220-240V 50/60Hz	12V DC	24W	Dimmable

Industrial marine bells,

*Watertight when used with connection box

Cat. no.		Voltage	Gong Diameter
240212		12V DC	Ø 150 mm
240218		24/48V DC	Ø 150 mm
240224		24V AC	Ø 150 mm
240230		110V AC	Ø 150 mm
240236		220V AC	Ø 150 mm

240248	*Watertight connection box IP44, for above bells

Industrial marine bells, watertight IP44

Cat. no.	Impa no.	Voltage	Gong Diameter
240256	793432	24/48V DC	Ø 150 mm
240262	793435	110V AC	Ø 150 mm
240268	793436	220V AC	Ø 150 mm

Japanese marine bells, watertight IP56

Cat. no.	Impa no.	Voltage	Gong Diameter
240302	793431	24V DC	Ø 120 mm
240306	793433	110V AC	Ø 120 mm
240310	793434	220V AC	Ø 120 mm

Japanese marine bells with pilot lamp, watertight IP56

Cat. no.	Impa no.	Voltage	Gong Diameter
240318	793441	24V DC	Ø 120 mm
240330	793443	110V AC	Ø 120 mm
240336	793444	220V AC	Ø 120 mm

Buzzers electronic, surface mounting

Cat. no.	Impa no.	Voltage	Gong Diameter
240512		3-28V DC	Ø 42 x 16 mm
240518	793401	12-30V AC/DC	70 x 80 x 77 mm
240530	793412	110-240V AC	70 x 80 x 77 mm

Buzzers electronic, flush mounting			
Cat. no.	*Impa no.*	*Voltage*	*Diameter*
240618	793402	12-30V AC/DC	Ø 28 mm
240630	793413	110-240V AC	Ø 28 mm

Japanese marine alarm buzzers with pilot lamp, watertight IP56		
Cat. no.	*Impa no.*	*Voltage*
240718	793405	24V DC
240730	793419	110V AC
240736	793420	220V AC

Hooters IP54, for indoor use			
Cat. no.		*Voltage*	*Audibility 1 mtr*
240818		24V DC	110 dB
240824		24V AC	105 dB
240830		110V AC	105 dB
240836		220V AC	105 dB

Hooters IP33/43, for indoor use			
Cat. no.		*Voltage*	*Audibility 1 mtr*
240912		12V DC	92 dB
240918		24V DC	92 dB
240930		110V AC	92 dB
240936		220V AC	92 dB

Hooters IP55, for outdoor use			
Cat. no.	*Impa no.*	*Voltage*	*Audibility 1 mtr*
241218	793461	24V DC	108 dB
241224		24V AC	108 dB
241230	793462	110V AC	108 dB
241236	793463	220V AC	108 dB

Multi-tone sounder red IP66, for outdoor use Adjustable sound output, 32 tones			
Cat. no.	*Voltage*	*Audibility 1 mtr*	*Size*
241272	9 - 60V DC	105 dB	136 x 108 x 119 mm
241276	115 / 230V AC	105 dB	136 x 108 x 119 mm

Electronic Multi-tone sounder red IP67, for outdoor use Salt water resistant, Adjustable sound output, 32 tones			
Cat. no.	***Voltage***	***Audibility 1 mtr***	***Size***
241282	24V DC	110 dB	133 x 161 x 143 mm
242284	115V AC	110 dB	133 x 161 x 143 mm
242286	230V AC	110 dB	133 x 161 x 143 mm

Hooters with warning light IP33/43, for indoor use			
Cat. no.	***Voltage***	***Audibility 1 mtr***	***Audibility 1 mtr***
241412	12V DC	Amber	92 dB
241418	24V DC	Amber	92 dB
241430	110V AC	Amber	92 dB
241436	220V AC	Amber	92 dB

Flash / Multi-tone sounder red IP66, for outdoor use Adjustable sound output, 32 tones				
Cat. no.	***Voltage***	***Audibility 1 mtr***	***Colour***	***Colour***
241442	9 - 60V DC	105 dB	Red	136 x 138 x 119 mm
241446	115 / 230V AC	105 dB	Red	136 x 138 x 119 mm

Motor driven sirens, metal (small-type)		
Cat. no.	***Voltage***	***Audibility 1 mtr***
241812	12V AC/DC	98 dB
241818	24V AC/DC	98 dB
241830	110V AC/DC	98 dB
241836	220V AC/DC	98 dB

Motor driven sirens, metal		
Cat. no.	***Voltage***	***Audibility 1 mtr***
241918	24V AC/DC	103 dB
241930	110V AC/DC	103 dB
241936	220V AC/DC	103 dB

Motor driven sirens, mushroom type IP44		
Cat. no.	***Voltage***	***Audibility 1 mtr***
242118	24V AC/DC	106 dB
242130	110V AC/DC	106 dB
242136	220V AC/DC	106 dB

Rotating beacons

Cat. no.	Impa no.	Voltage	Colour
243612	792192	12V DC	Amber
243618	792191	12V DC	Red
243624		12V DC	Blue
243630	792194	24V DC	Amber
243636	792193	24V DC	Red
243642		24V DC	Blue
243648		24V AC	Amber
243654		24V AC	Red
243660		24V AC	Blue
243666	792196	110V AC	Amber
243672	792195	110V AC	Red
243678		110V AC	Blue
243684	792198	220V AC	Amber
243690	792197	220V AC	Red
243696		220V AC	Blue

Globes for above rotating beacons

Cat. no.	Colour
243712	Amber
243718	Red
243724	Blue

Rotating beacons, simple type

Cat. no.	Impa no.	Voltage	Colour
243824	792198	220V AC	Amber
243830	792197	220V AC	Red
243836		220V AC	Blue

Globes for above rotating beacons, simple type

Cat. no.	Colour
243912	Amber
243918	Red
243924	Blue

Multirange omni-directional wideband receiving antenna

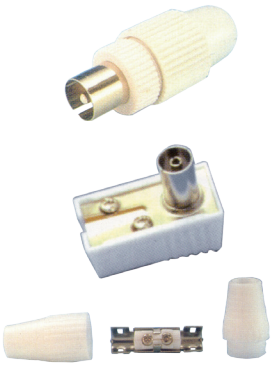
Cat. no.	Impa no.	Description	Frequency range
250312	111205	FTE antenna type AV16N for marine use, with amplifier 12/24V DC - 110/220V AC, Including 20 mtr. Coaxial cable 75 Ohm Size Ø 540 x 360 mm	AM-VHF-FM-UHF 47 - 862 Mhz
250360		FTE amplifier type LBS30-12P 8dB, 12/24V DC - 110/220V AC	

Outdoor / Indoor antennas

Cat. no.	Description	Frequency range
250824	Outdoor screened antenna	VHF - UHF
250836	Indoor amplified antenna 360° rotable, 12V DC - 110/220V AC	VHF - UHF

Coaxial cable

Cat. no.	Impa no.	Type	Ohm	Colour	Outside dia mm
150024	794273	RG-58C/U	50	Black	4,95
150036	794261	RG-59B/U	75	Black	6,2
150048	794274	RG-213/U	50	Black	10,3
150060		RG-214/U	50	Black	10,8
150112	794263	Brass/Brass	75	White	5,5
150118		Silver/Silver	75	White	6,0
150130	794264	Coax-12	75	Grey	7,5



Antenna accessories, domestic use

Cat. no.	Description
255112	Domestic coaxial plug straight, male
255118	Domestic coaxial plug straight, female
255124	Domestic coaxial plug right angle, male
255130	Domestic coaxial plug right angle, female
255142	Domestic coaxial coupler

continue on next page

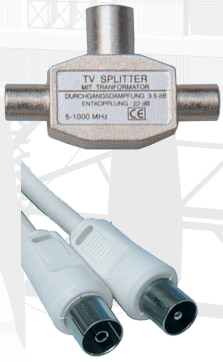


fig. 1

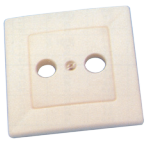


fig. 2

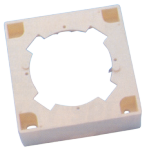


fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

Antenna accessories, domestic use

continuation

Cat. no.	Description	
255166	Domestic pvc splitter triangle version, 1x male - 2x female	
255172	Domestic pvc splitter triangle version, 1x female - 2x male	
255178	Domestic metal splitter T version, 1x male - 2x female	
255184	Domestic metal splitter T version, 1x female - 2x male	
255312	Coaxial lead with right angle connectors male/female, 1,5 mtr	
255318	Coaxial lead with right angle connectors male/female, 2,5 mtr	
255324	Coaxial lead with right angle connectors male/female, 5,0 mtr	
255336	Coaxial lead with right angle connectors male/female, 10 mtr	
255612	Junction box 75 Ohm 4-way coaxial	
255624	Amplifier 75 Ohm input 110V AC for 2 TV's / Radio's	
255630	Amplifier 75 Ohm input 220V AC for 2 TV's / Radio's	
255712	Receptacle 75 Ohm for TV/Radio, interior for end connection	1
255718	Receptacle 75 Ohm for TV/Radio, interior for feed through connection	1
255724	Front plate for receptacle 75 Ohm interior	2
255730	Surface box for receptacle 75 Ohm interior	3
255812	F-connector for coaxial cable "Coax 12"	4
255814	F-connector coupler, female / female	5
255818	Coaxial splitter 2-way for F-connector	6
255822	Coaxial splitter 4-way for F-connector	7
255830	Coaxial splitter 6-way for F-connector	8
255854	End resistor, for above splitters if the outputs are not used	9

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

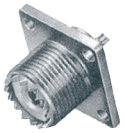


fig. 6

Antenna accessories, professional use

Cat. no.		Description	Fig.
255912		BNC coaxial connector male, for RG-58 cable, soldering type	1
255918		BNC coaxial connector female, for RG-58 cable, soldering type	2
255924		BNC coaxial connector male, for RG-59 cable, soldering type	1
255930		BNC coaxial connector female, for RG-59 cable, soldering type	2
255936		UHF coaxial connector male, type PL 259/6mm for RG-58 cable	3
255942		UHF coaxial connector male, type PL 259/10mm for RG-213 cable	3
255948		UHF coaxial coupler female / female, type PL 258	4
255954		UHF coaxial T-adaptor, 1x male 2x female, type M358	5
255960		UHF coaxial chassis socket female, type SO239	6

fig. 1

fig. 2

fig. 3

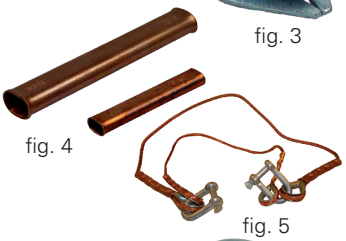


fig. 4

fig. 5

fig. 6

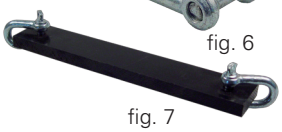


fig. 7

Antenna wire, insulators and accessories

Cat. no.	Impa no.	Description	Fig.
257112	794378	Antenna wire 7x7x0,4mm - dia 3,6 mm	1
257118	794377	Antenna wire 7x7x0,7mm - dia 6,3 mm	1
257124	794742	Connector for antenna wire 3,6 mm	2
257130	794744	Connector for antenna wire 6,3 mm	2
257136		Thimble for antenna wire 3.6 mm	3
257142		Thimble for antenna wire 6.3 mm	3
257148		Grommet for antenna wire 3.6 mm	4
257154		Grommet for antenna wire 6.3 mm	4
257160		Weaklink for antennawire 7x7x0,4mms	5
257166		Weaklink for antennawire 7x7x0,7mm	5
257172		Shackle for antenna isolators 3/8"	6
257178	794861	Polyethylene insulator 300 x 50 mm complete with shackles	7
257184		Polyethylene insulator 500 x 50 mm complete with shackles	7

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

Communication equipment

Cat. no.	Impa no.	Description	Fig.
265108	795713	Loudspeaker watertight 15W 8 Ohm	1
265112	795714	Loudspeaker watertight 30W 8 Ohm	1
265160	370184	Microphone watertight 600 Ohm	2
265296	795702	Transistor Megaphone 10W with siren	3
265300	795704	Transistor Megaphone 25W with whistle	3
265412		Jack-plug Ø 3,5 mm mono	4
265418		Jack-plug Ø 3,5 mm stereo	4
265430		Jack-plug Ø 6,3 mm mono	4
265436		Jack-plug Ø 6,3 mm stereo	4
265612		Scart-cable 21-pin, length 1,5 mtr	5
265630		HDMI-cable with Ethernet, length 1,5 mtr	6

Glass fuses, 250 Volt, dimensions 5 x 15 mm		
Quick-act	*Time-lag*	
Cat. no.	*Cat. no.*	*Ampere*
280134	---	0,25
280138	---	0,315
280142	---	0,4
280146	---	0,5
280150	---	0,63
280166	---	1
280170	---	1,25
280174	---	1,6
280178	---	2
280182	---	2,5
280186	---	3,15
280190	---	4
280194	---	5
280198	---	6,3

Glass fuses, 250 Volt, dimensions 5 x 20 mm			
Quick-act		*Time-lag*	
Cat. no.	*Impa no.*	*Cat. no.*	*Ampere*
---		280702	0,03
280506		280706	0,05
280510		280710	0,063
280514		280714	0,08
280518	793601	280718	0,1
280522		280722	0,125
280526		280726	0,16
280530	793602	280730	0,2
280534		280734	0,25
280538	793603	280738	0,32
280542	793604	280742	0,4
280546	793605	280746	0,5
280550	793606	280750	0,63
280554		---	0,71
280562	793607	280762	0,8
280566	793608	280766	1
280570		280770	1,25
280574	793609	280774	1,6
280578	793610	280778	2

continue on next page

Glass fuses, 250 Volt, dimensions 5 x 20 mm

continuation

Quick-act		Time-lag	
Cat. no.	Impa no.	Cat. no.	Ampere
280582		280782	2,5
280586	793611	280786	3,15
280590	793612	280790	4
280594	793613	280794	5
280598	793614	280798	6,3
280602		280802	7
280610	793615	280810	8
280618	793616	280818	10
280622		---	12,5
280626		280826	16
280630		---	20

Glass fuses, 250 Volt, dimensions 5 x 25 mm

Quick-act	Time-lag	
Cat. no.	Cat. no.	Ampere
280918	281118	0,1
280922	281122	0,125
280926	281126	0,16
280930	281130	0,2
280934	281134	0,25
280938	281138	0,315
280942	281142	0,4
280946	281146	0,5
280950	281150	0,63
280962	281162	0,8
280966	281166	1
280970	281170	1,25
280974	281174	1,6
280978	281178	2
280982	281182	2,5
280986	281186	3,15
280990	281190	4
280994	281194	5
280998	281198	6,3
281010	281210	8
281018	281218	10
281026	---	16

Glass fuses, 250 Volt, dimensions 6,3 x 32 mm			
Quick-act		*Time-lag*	
Cat. no.	*Impa no.*	*Cat. no.*	*Ampere*
281306		281506	0,05
281318	793621	281518	0,1
281322		281522	0,125
281326		281526	0,16
281330	793622	281530	0,2
281334		281534	0,25
281338	793623	281538	0,315
281342	793624	281542	0,4
281346	793625	281546	0,5
281350	793626	281550	0,63
281354		281554	0,7
281362	793627	281562	0,8
281366	793628	281566	1
281370		281570	1,25
281374	793629	281574	1,5
281378	793630	281578	2
281382		281582	2,5
281386	793631	281586	3,15
281390	793632	281590	4
281394	793633	281594	5
281398	793634	281598	6,3
281402		281602	7
281406		---	7,5
281410	793635	281610	8
281418	793636	281618	10
281422		281622	12,5
281426	793637	281626	15
281430	793638	---	20
281434		---	25
281438		---	30
281442		---	35
281446		---	40

Assortment box with 18 types of glass fuses, 0,1 till 10 Ampere			
Cat. no.	*Dimensions*	*Characteristic*	*Containing*
281812	5 x 20 mm	Quick-acting	18 x 20 pcs
281818	5 x 20 mm	Time-lag	18 x 20 pcs
281830	5 x 25 mm	Quick-acting	18 x 20 pcs
281836	5 x 25 mm	Time-lag	18 x 20 pcs
281848	6,3 x 32 mm	Quick-acting	18 x 10 pcs
281854	6,3 x 32 mm	Time-lag	18 x 10 pcs

Porcelain fuses with indicator, 250 Volt, dimensions 5 x 25 mm		
Quick-act	*Redued Time-lag*	
Cat. no.	*Cat. no.*	*Ampere*
	282018	0,1
	282030	0,2
	282034	0,25
	282042	0,4
	282046	0,5
	282066	1
282174		1,6
282178		2
282182		2,5
282186		3,15
282190		4
282194		5
282198		6,3
282202		8
282218		10

Bases for glass fuses		
Cat. no.	*For fuses*	*Description*
282512	5 x 20 mm	Panel mounting, bore 13 mm
282524	5 x 25 mm	Panel mounting, bore 18 mm
282536	6,3 x 32 mm	Panel mounting, bore 13 mm
282560	5 x 20 mm	Connection between 2-wires

Porcelain fuses, 400 Volt, dimensions 8 x 32 mm

Quick-act gL/gG		*Time-lag aM*		
Cat. no.		***Cat. no.***	***Impa no.***	***Ampere***
---		283612	796101	1
---		283614	796102	2
---		283618	796103	4
---		283622	796104	6
---		283626	796105	8
---		283630	796106	10
---		283634	796107	12
---		283638	796108	16

Porcelain fuses, 500 Volt, dimensions 10 x 38 mm

Quick-act. gL/gG		*Time-lag aM*		
Cat. no.	***Impa no.***	***Cat. no.***	***Impa no.***	***Ampere***
283706	794046	283806	796113	0,5
283710	794047	283810	796114	1
283714	794048	283814	796115	2
283718	794049	283818	796116	4
283722	794050	283822	796117	6
283726	794051	283826	796118	8
283730	794052	283830	796119	10
283734	794053	283834	796120	12
283738	794054	283838	796121	16
283742	794055	283842	796122	20
283746	794056	283846	796123	25
283750	794057	283850	796124	32

Bases for porcelain fuses 10 x 38 mm

Cat. no.	***For fuses***	***Description***
283862	10 x 38 mm	1-pol for DIN rail mounting
283868	10 x 38 mm	2-pol for DIN rail mounting
283874	10 x 38 mm	3-pol for DIN rail mounting

Porcelain fuses, 500 Volt, dimensions 14 x 51 mm

Quick-act. gL/gG		*Time-lag aM*		
Cat. no.	***Impa no.***	***Cat. no.***	***Impa no.***	***Ampere***
283910	794061	284010	796128	1
283914	794062	284014	796129	2
283918	794063	284018	796130	4
283922	794064	284022	796131	6
283926	794065	284026	796132	8
283930	794066	284030	796133	10
283934	794067	284034	796134	12
283938	794068	284038	796135	16
283942	794069	284042	796136	20
283946	794070	284046	796137	25
283950	794071	284050	796138	32
283954	794072	284054	796139	40
283958	794073	284058	796140	50

Porcelain fuses, 500 Volt, dimensions 22 x 58 mm

Quick-act. gL/gG		*Time-lag aM*		
Cat. no.	***Impa no.***	***Cat. no.***	***Impa no.***	***Ampere***
284118	794077			4
284122	794078			6
284126	794079			8
284130	794080	284230	796145	10
284134	794081			12
284138	794082	284238	796147	16
284142	794083	284242	796148	20
284146	794084	284246	796149	25
284150	794085	284250	796150	32
284154	794086	284254	796151	40
284158	794087	284258	796152	50
284162	794088	284262	796153	63
284166	794089	284266	796154	80
284170	794090	284270	796155	100
284174	794091	284274	796156	125

Diazed fuses, 500 Volt, dimensions 22 x 50 mm

Quick-act.		Slow-acting			
Cat. no.	Impa no.	Cat. no.	Impa no.	Ampere	Type
285014	793961	285214	793911	2	D2
285018	793962	285218	793912	4	D2
285022	793963	285222	793913	6	D2
285030	793964	285230	793914	10	D2
285038	793965	285238	793915	16	D2
285042	793966	285242	793916	20	D2
285046	793967	285246	793917	25	D2

Diazed fuses, 500 Volt, dimensions 27 x 50 mm

Quick-act.		Slow-acting			
Cat. no.	Impa no.	Cat. no.	Impa no.	Ampere	Type
285050	793971	285250	793921	35	D3
285058	793972	285258	793922	50	D3
285062	793973	285262	793923	63	D3

Diazed fuses, 500 Volt, slow-acting

Cat. no.	Impa no.	Ampere	Type	Dimensions
285266	793926	80	D4	37 x 63 mm
285270	793927	100	D4	37 x 63 mm
285274	793931	125	D5	51 x 66 mm
285278	793932	160	D5	51 x 66 mm
285282	793933	200	D5	51 x 66 mm

Diazed fuses, 500 Volt, slow-acting

Cat. no.	Ampere	Type	Colour
285614	2	D2	pink
285618	4	D2	brown
285622	6	D2	green
285630	10	D2	red
285638	16	D2	grey
285642	20	D2	blue
285646	25	D2	yellow
285650	35	D3	black
285658	50	D3	white
285662	63	D3	copper
285712	Bottom screw wrench for D2 and D3		

Fuse base for Daized fuses

Cat. no.	Ampere	Type	Mounting
285912	2 - 25	D2	Base -mounting
285918	2 - 25	D2	DIN rail mounting

285930	35 - 63	D3	Base-mounting
285942	35 - 63	D3	DIN rail mounting

Fuse screw caps for Daized fuses

Cat. no.	Impa no.	Ampere	Type	Thread
286012	793942	2 - 25	K2	E27
286018	793943	35 - 63	K3	E33
286024	793944	80 - 100	K4	R 1-1/4"
286030	793945	125 - 200	K5	R 2

286112	Reducing ring for K2 fuse to K3 cap

Screw-in circuit breakers 380V AC / 250V DC

Cat. no.	Ampere	Thread
286322	6	E27
286330	10	E27
286338	16	E27
286342	20	E27
286346	25	E27

Cartridge fuses, 750 Volt

Cat. no.	Ampere	Thread
286514	2	27 x 70 mm
286518	4	27 x 70 mm
286522	6	27 x 70 mm
286530	10	27 x 70 mm
286538	16	27 x 70 mm
286542	20	27 x 70 mm
286546	25	27 x 70 mm
286550	35	27 x 70 mm
286558	50	27 x 70 mm
286562	63	27 x 70 mm

NDZ fuses, 500 Volt, dimensions 13 x 50 mm					
Quick-act.		*Slow-acting*			
Cat. no.	***Impa no.***	***Cat. no.***	***Impa no.***	***Ampere***	***Type***
287014	793951	287114	793901	2	D1
287018	793952	287118	793902	4	D1
287022	793953	287122	793903	6	D1
287030	793954	287130	793904	10	D1
287038	793955	287138	793905	16	D1
287042	793956	287142	793906	20	D1
287046	793957	287146	793907	25	D1

Fuse base for NDZ fuses			
Cat. no.	***Ampere***	***Type***	***Mounting***
287172	2 - 25	D1	Base-mounting

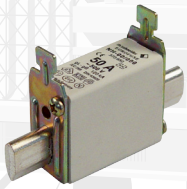
Fuse screw caps for NDZ fuses				
Cat. no.	***Impa no.***	***Ampere***	***Type***	***Mounting***
287184	793941	2 - 25	K1	E16

Neozed fuses, 380 Volt				
Cat. no.	***Impa no.***	***Ampere***	***Type***	***Demensions***
287414	794001	2	D01	11 x 36 mm
287418	794002	4	D01	11 x 36 mm
287422	794003	6	D01	11 x 36 mm
287430	794004	10	D01	11 x 36 mm
287438	794005	16	D01	11 x 36 mm

287442	794011	20	D02	15 x 36 mm
287446	794012	25	D02	15 x 36 mm
287450	794013	35	D02	15 x 36 mm
287458	794014	50	D02	15 x 36 mm
287462	794015	63	D02	15 x 36 mm

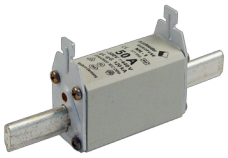
Fuse base for Neozed fuses			
Cat. no.	***Ampere***	***Type***	***Mounting***
287512	2 - 16	D01	Base-mounting
287518	20 - 63	D02	Base-mounting

Fuse screw caps for Neozed fuses			
Cat. no.	*Ampere*	*Type*	*Mounting*
287530	2 - 16	K01	E14
287536	20 - 63	K02	E18



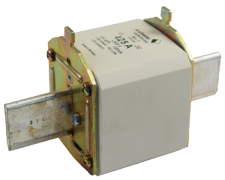
Knife blade fuses gL/gG, 500 Volt, Din-size 00			
Cat. no.	*Impa no.*	*Ampere*	*Overall length*
288004	793801	6	78 mm
288008	793802	10	78 mm
288012	793803	16	78 mm
288016	793804	20	78 mm
288020	793805	25	78 mm
288024	793806	35	78 mm
288028	793807	50	78 mm
288032	793808	63	78 mm
288036	793809	80	78 mm
288040	793810	100	78 mm
288044	793811	125	78 mm
288048	793812	160	78 mm

Knife blade fuses gL/gG, 500 Volt, Din-size 0			
Cat. no.	*Impa no.*	*Ampere*	*Overall length*
288204	793816	6	125 mm
288208	793817	10	125 mm
288212	793818	16	125 mm
288216	793819	20	125 mm
288220	793820	25	125 mm
288224	793821	35	125 mm
288228	793822	50	125 mm
288232	793823	63	125 mm
288236	793824	80	125 mm
288240	793825	100	125 mm
288244	793826	125	125 mm
288248	793827	160	125 mm



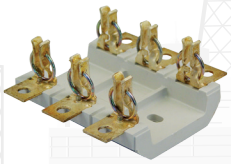
Knife blade fuses gL/gG, 500 Volt, Din-size 1			
Cat. no.	*Impa no.*	*Ampere*	*Overall length*
288424	793831	35	135 mm
288428	793832	50	135 mm
288432	793833	63	135 mm
288436	793834	80	135 mm
288440	793835	100	135 mm
288444	793836	125	135 mm
288448	793837	160	135 mm
288452	793838	200	135 mm
288456	793839	250	135 mm

Knife blade fuses gL/gG, 500 Volt, Din-size 2			
Cat. no.	*Impa no.*	*Ampere*	*Overall length*
288632	793843	63	150 mm
288636	793844	80	150 mm
288640	793845	100	150 mm
288644	793846	125	150 mm
288648	793847	160	150 mm
288652	793848	200	150 mm
288660	793849	250	150 mm
288664	793850	315	150 mm
288672	793851	400	150 mm



Knife blade fuses gL/gG, 500 Volt, Din-size 3			
Cat. no.	*Impa no.*	*Ampere*	*Overall length*
288872	793856	400	150 mm
288880	793857	500	150 mm
288884	793858	630	150 mm

Base for Knife blade fuses, single-pole				
Cat. no.	*Impa no.*	*Ampere*	*Din-size*	*Mounting*
289224	793861	160	00	Base-mounting
289240	793864	250	0 - 1	Base-mounting
289248	793865	400	2	Base-mounting
289254	793866	630	3	Base-mounting



Base for Knife blade fuses, triple-pole

Cat. no.	Impa no.	Ampere	Din-size	Mounting
289324	793872	160	00	Base-mounting
289340	793874	250	0 - 1	Base-mounting
289348	793875	400	2	Base-mounting

Puller for Knife blade fuses

Cat. no.	Impa no.	Description
289372	793880	Puller for Knife blade fuses with insulated handle for fuses DIN 00 till 3

Fuse element for Japanese Cello-lite glass holder

Cat. no.	Impa no.	Ampere	Type	Dimensions without blades
290106	793691	1	NC-1	9 x 42 mm
290110		2	NC-1	9 x 42 mm
290114	793692	3	NC-1	9 x 42 mm
290118	793693	5	NC-1	9 x 42 mm
290122	793694	10	NC-1	9 x 42 mm
290126	793695	15	NC-1	9 x 42 mm
290130	793696	20	NC-1	9 x 42 mm
290134	793697	25	NC-1	9 x 42 mm
290138	793698	30	NC-1	9 x 42 mm

290142	793701	40	NC-2	12 x 65 mm
290146	793702	50	NC-2	12 x 65 mm
290150	793703	60	NC-2	12 x 65 mm

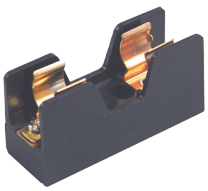
Glass holder for Japanese Cello-lite element

Cat. no.	Impa no.	Ampere	Type	Dimensions
290312	793690	1 - 30	NC-1	15 x 50 mm
290318		40 - 50	NC-2	20 x 75 mm

Japanese Cello-lite case & fuse element complete				
Cat. no.	*Impa no.*	*Ampere*	*Type*	*Dimensions*
290506	793661	1	NC-1	15 x 50 mm
290514	793662	3	NC-1	15 x 50 mm
290518	793663	5	NC-1	15 x 50 mm
290522	793664	10	NC-1	15 x 50 mm
290526	793665	15	NC-1	15 x 50 mm
290530	793666	20	NC-1	15 x 50 mm
290534	793667	25	NC-1	15 x 50 mm
290538	793668	30	NC-1	15 x 50 mm

290542	793671	40	NC-2	20 x 75 mm
290546	793672	50	NC-2	20 x 75 mm
290550	793673	60	NC-2	20 x 75 mm

Japanese Cello-lite cartridge fuses				
Cat. no.	*Impa no.*	*Ampere*	*Type*	*Dimensions*
290806	793741	1	UC-1	15 x 50 mm
290814	793742	3	UC-1	15 x 50 mm
290818	793743	5	UC-1	15 x 50 mm
290822	793744	10	UC-1	15 x 50 mm
290826	793745	15	UC-1	15 x 50 mm
290830	793746	20	UC-1	15 x 50 mm
290834	793747	25	UC-1	15 x 50 mm
290838	793748	30	UC-1	15 x 50 mm



Bases for Japanese Cello-lite fuses		
Cat. no.	*Ampere*	*For fuses*
291012	1 - 30	NC-1 / UC-1
291024	40 - 60	NC-2 / UC-2

Fuse pullers		
Cat. no.	*Impa no.*	*Description*
291612	793736	Nylon resin, Scissor type
291624	793737	Phenol resin, Butterfly type

British porcelain fuses

Cat. no.	Ampere	Dimensions
293124	13	6,3 x 25 mm

British HRC cartridge fuses 415 Volt, type NIT

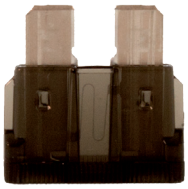
Cat. no.	Ampere	Dimensions	Fixing centre
293208	2	14 x 55 mm	44,5 mm
293212	4	14 x 55 mm	44,5 mm
293216	6	14 x 55 mm	44,5 mm
293220	10	14 x 55 mm	44,5 mm
293224	16	14 x 55 mm	44,5 mm
293228	20	14 x 55 mm	44,5 mm
293232	25	14 x 55 mm	44,5 mm
293236	32	14 x 55 mm	44,5 mm

British HRC cartridge fuses 415 Volt, type TIA

Cat. no.	Ampere	Dimensions	Fixing centre
293608	2	21 x 86 mm	73 mm
293612	4	21 x 86 mm	73 mm
293616	6	21 x 86 mm	73 mm
293620	10	21 x 86 mm	73 mm
293624	16	21 x 86 mm	73 mm
293628	20	21 x 86 mm	73 mm
293632	25	21 x 86 mm	73 mm
293636	32	21 x 86 mm	73 mm

Car fuses, 6 x 25,4 mm

Cat. no.	Ampere	Colour
295416	5	yellow
295424	8	white
295432	16	red
295440	25	blue



Car fuses, plug-in type		
Cat. no.	***Ampere***	***Colour***
295512	1	black
295516	2	smoky
295520	3	violet
295524	4	pink
295528	5	amber
295532	7,5	brown
295536	10	red
295540	15	blue
295544	20	yellow
295548	25	transparent
295552	30	green

Fuse wire, rolls of approx. 500 gram		
Cat. no.	***Impa no.***	***Ampere***
295806	793721	1
295812	793722	3
295818	793723	5
295824	793724	10
295830	793725	15
295836	793726	20
295842		25
295848	793727	30
295854	793728	40
295860	793729	50
295866	793730	60

Circuit breakers 6kA, 1-pole		
Cat. no.	*Ampere*	*Characteristic*
296214	6	B (L)
296220	10	B (L)
296226	16	B (L)
296232	20	B (L)
296238	25	B (L)
296244	32	B (L)

Circuit breakers 6kA, 2-pole		
Cat. no.	*Ampere*	*Characteristic*
296314	6	B (L)
296320	10	B (L)
296326	16	B (L)
296332	20	B (L)
296338	25	B (L)
296344	32	B (L)

Circuit breakers 6kA, 2-pole		
Cat. no.	*Ampere*	*Characteristic*
296414	6	B (L)
296420	10	B (L)
296426	16	B (L)
296432	20	B (L)
296438	25	B (L)
296444	32	B (L)

Circuit breakers 6kA, 1-pole		
Cat. no.	*Ampere*	*Characteristic*
296714	6	C (G)
296720	10	C (G)
296726	16	C (G)
296732	20	C (G)
296738	25	C (G)
296744	32	C (G)

Circuit breakers 6kA, 2-pole		
Cat. no.	*Ampere*	*Characteristic*
296804	1	C (G)
296808	2	C (G)
296812	4	C (G)
296814	6	C (G)
296820	10	C (G)
296826	16	C (G)
296832	20	C (G)
296838	25	C (G)
296844	32	C (G)
296850	40	C (G)
296856	50	C (G)
296862	63	C (G)

Circuit breakers 6kA, 3-pole		
Cat. no.	*Ampere*	*Characteristic*
296914	6	C (G)
296920	10	C (G)
296926	16	C (G)
296932	20	C (G)
296938	25	C (G)
296944	32	C (G)
296950	40	C (G)
296956	50	C (G)
296962	63	C (G)

Enclosure IP65 for circuit breakers with transparent hinged cover		
Cat. no.	*Number of module*	*Dimensions (H x W x D mm)*
297412	3	150 x 80 x 98 mm
297418	6	200 x 159 x 112 mm
297424	10	200 x 195 x 112 mm
297438	18	280 x 448 x 160 mm

Schneider Electric Power switch / Circuit breaker frame, 3-pole with protection unit

Cat. no.	Setting range	kA	Type	Dimensions (H x W x D mm)
297912	70…100 Amp	36	NSX100F + TM100D	161 x 105 x 86 mm
297914	70…100 Amp	70	NSX100H + TM100D	161 x 105 x 86 mm
297922	112…160 Amp	36	NSX160F + TM160D	161 x 105 x 86 mm
297924	112…160 Amp	70	NSX160H + TM160D	161 x 105 x 86 mm
297932	175…250 Amp	36	NSX250F + TM250D	161 x 105 x 86 mm
297934	175…250 Amp	70	NSX250H + TM250D	161 x 105 x 86 mm
297952	144…400 Amp	36	NSX400F + MICR 2.3	255 x 140 x 110 mm
297954	144…400 Amp	70	NSX400H + MICR 2.3	255 x 140 x 110 mm

Overcurrent Switch-off coil for Power switch / Circuit breaker

Cat. no.	Coil voltage	Type
298612	24V DC	MX
298618	24V 50/60Hz	MX
298624	100/130V 50/60Hz	MX
298630	200/240V 50/60Hz	MX
298636	380/440V 50/60Hz	MX

Overcurrent Switch-off coil for Power switch / Circuit breaker

Cat. no.	Coil voltage	Type
298660	24V DC	MN
298666	24V 50/60Hz	MN
298672	100/130V 50/60Hz	MN
298678	200/240V 50/60Hz	MN
298684	380/440V 50/60Hz	MN

Auxilary contact for Power switch / Circuit breaker

Cat. no.	Type
298712	OF-SD-SDE-SDV

Clamp meters			
Cat. no.	**Impa no.**	**Description**	
305112	795730	Digital Clamp-meter / multimeter in case	
		AC Current:	0 - 200A
			0 - 600A
		AC Volts:	0 - 200V
			0 - 600V
		Resistance:	2000 Ω
		Frequency:	2 KHz - 5 MHz

Clamp meters			
Cat. no.	**Impa no.**	**Description**	
305172	795735	Digital Clamp-meter / multimeter in case	
		AC Current:	0 - 200A
			0 - 1500A
		DC Current:	0 - 200A
			0 - 1500A
		AC Volts:	0 - 200V
			0 - 600V
		Resistance:	1500 Ω

Multimeters			
Cat. no.	**Impa no.**	**Description**	
305512	795756	Digital multimeter "pocket-type"	
		DC Volts:	0 - 1000V
		AC Volts:	0 - 750V
		AC Current:	200 µA - 10 A
		Resistance:	200 Ω - 2000 KΩ
		Diode test:	Yes

continue on next page

Multimeters

continuation

Cat. no.	Impa no.	Description	
305536	795755	Digital multimeter with holster	
		DC Volts:	0 - 1000V
		AC Volts:	0 - 750V
		DC Current:	200 µA - 10 A
		AC Current:	2 mA - 10A
		Resistance:	200 Ω - 200 MΩ
		Capacitance:	2 nF - 100 µF
		Frequency:	20 kHz
		Temperature:	-20°C - +250°C
		Diode test:	Yes

305560	795743	Analogue multimeter in Case	
		DC Volts:	0 - 1200V
		AC Volts:	0 - 1200V
		DC Current:	60 µA - 30 mA
		Resistance:	1 Ω - 20 MΩ

305584	795741	Analogue Multimeter shock-proof with clamp-meter	
		DC Volts:	150mV - 1500V
		AC Current:	10A - 200A with clamp
		AC Volts:	5 - 1500V
		AC Current:	10A - 200A with clamp
		Resistance:	20 KΩ - 2 MΩ
		Frequency:	1 kHz
		Diode test:	Yes

fig. 1

fig. 2

fig. 3

fig. 4

Electrical voltage testers

Cat. no.		Description	Fig.
305924		Electronic Voltage tester dust and water proof IP44, 8-stage LED-display, 6 - 400V AC/DC	1
305936		Duspol voltage tester with analogue display, 110 - 750V AC/DC	2
305948	795721	Circuit tester for testing electrical circuits 80 - 500V AC/DC	3
305960		Voltage testing screwdriver type "small" 140 mm 220 - 250V	4

continue on next page

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

Electrical voltage testers

continuation

Cat. no.		Description	Fig.
305966		Voltage testing screwdriver type "big" 190 mm 220 - 250V	1
305972	612416	Japanese spark testing screwdrivers set, Low-voltage 6's, 100 - 500V AC, 100 - 350V DC	2
305980	612417	Japanese spark testing screwdrivers set, High-voltage 6's, 2.500 - 19.000V AC	3
305984	795722	Volt Stick® 220 - 240V AC, Easy to use Just touch the tip to an outlet or cord	4
305988	795722	Voltage Detector Stick 90 - 1000V AC, Easy to use. Just tuch the tip to an outlet or cord	5

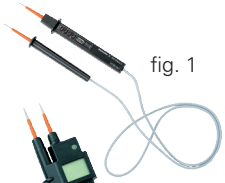


fig. 1

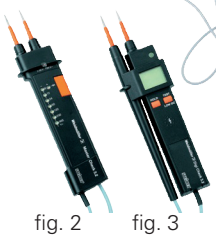


fig. 2

fig. 3

Weidmüller (Steinel) Electrical voltage testers

Cat. no.	Description	Fig.
306118	Volt-Check type 3.1, 6 - 400V AC/DC	1
306160	Master-Check Type 3.2, 6 - 400V AC/DC	2
306172	Combi-Check type 1.3, 6 - 690V AC/DC	2
306184	Digi-Check 3.2, 5 - 690V AC/DC	3

fig. 1

fig. 2

fig. 3

Electrical insulation tester (Megger-testers)

Cat. no.		Description	Fig.
306312	795771	Analogue insulation tester in case "Yu Fung" 2000 MΩ / 1000 V	1
306324	795777	Analogue insulation tester in case "Kaise" 1000 MΩ / 500 V - 2000 MΩ / 1000 V	2
306336	795781	Digital insulation tester in case 200 MΩ / 250 V, 200 MΩ / 500 V, 2000 MΩ / 1000 V	3

Cable break position-locator

Cat. no.		Description
306412	652750	Cable break position-locator "lineSpotter"

Rotary field direction indicator

Cat. no.	Description
306512	Phase sequence indicator in soft case

Magnetic field indicator

Cat. no.	Description
306572	Magnet Stick, for testing relay coils, solenoid valves and hydralic or pneumatic systems

fig. 1

Banana wiring accessories

Cat. no.		Description	Fig.
260212	794891	Banana plug, male, red	1
260218	794892	Banana plug, male, black	1
260224	794896	Banana plug, male, blue	1
260230	794895	Banana plug, male, yellow	1
260232	794893	Banana plug, male, green	1
260260		Banana plug, female, red	2
260266		Banana plug, female, black	2
260290		Banana chassis socket, red	3
260296		Banana chassis socket, black	3

fig. 2

fig. 3

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

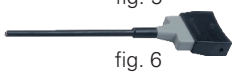


fig. 6

fig. 7

Accessories for measuring instruments

Cat. no.	Description	Fig.
306712	Universal test lead 50 cm, red	1
306718	Universal test lead 50 cm, black	2
306730	Universal test lead 100 cm, red	1
306736	Universal test lead 100 cm, black	2
306748	Universal test lead 150 cm, red	1
306754	Universal test lead 150 cm, black	2
306812	Probe for test leads red	3
306818	Probe for test leads black	4
306912	Clip on probe red	5
306918	Clip on probe black	6
306960	Set test leads for AVO meter complete	7

113

114

115

116

117

Fluke 110-serie digitale multimeters

Cat. no.	Impa no.	Description
310225		Fluke Multimeter 113
310227		Fluke Multimeter 114
310228	795760	Fluke Multimeter 115
310230		Fluke Multimeter 116
310232		Fluke Multimeter 117

Funcions	Maximum	113	114	115	116	117
Voltage DC	600 V		•	•	•	•
Voltage AC	600 V		•	•	•	•
Current DC	10 A			•		•
Current AC	10 A			•		•
Resistance	40 MΩ (113: 60 KΩ)	•	•	•	•	•
Capacitance	10000 µF	•		•	•	•
Frequency	50 kHz			•	•	•
Temperature	-40°C - +400°C				•	
VCHEK™	600V AC/DC	•				

27 II

Fluke 27-II Rugged IP67 Industrial Multimeter

Cat. no.	Impa no.	Description
310560	795768	Fluke 27 II

Funcions	Maximum	27 II
Voltage DC	1000 V	•
Voltage AC	1000 V	•
Current DC	10 A	•
Current AC	10 A	•
Resistance	50 MΩ	•
Capacitance	9999 µF	•
Frequency	200 kHz	•
Temperature	-200°C - +1090°C	•

77IV

Fluke 77IV Digitale Multimeters

Cat. no.	Description
310324	Fluke 77-IV

Funcions	Maximum	77IV
Voltage DC	1000 V	•
Voltage AC	1000 V	•
Current DC	10 A	•
Current AC	10 A	•
Resistance	50 MΩ	•
Capacitance	9999 µF	•
Frequency	99,99 kHz	•

175

177

179

Fluke 170 Serie Digitale Multimeters

Cat. no.	Impa no.	Description
310360		Fluke 175
310366	795767	Fluke 177
310372		Fluke 179

Funcions	Maximum	175	177	179
Voltage DC	1000 V	•	•	•
Voltage AC	1000 V	•	•	•
Current DC	10 A	•	•	•
Current AC	10 A	•	•	•
Resistance	50 MΩ	•	•	•
Capacitance	10000 µF	•	•	•
Frequency	100 kHz	•	•	•
Temperature	-40°C - +400°C			•

83V

87V

Fluke 80 Serie V Digitale Multimeters

Cat. no.	Impa no.	Description
310412		Fluke 83V
310418		Fluke 87V

Funcions	Maximum	83V	87V
Voltage DC	1000 V	•	•
Voltage AC	1000 V	•	•
Current DC	10 A*	•	•
Current AC	10 A*	•	•
Resistance	50 MΩ	•	•
Conductance	60 nS	•	•
Capacitance	9999 µF	•	•
Frequency	>200 kHz	•	•
Temperature	-200°C - +1090°C		•

* 20 A up to 30 seconds

287

289

Fluke 280 Serie Digitale Multimeters

Cat. no.	Description
310440	Fluke 287
310446	Fluke 289

Funcions	Maximum	287	289
Voltage DC	1000 V	•	•
Voltage AC	1000 V	•	•
Current DC	10 A*	•	•
Current AC	10 A*	•	•
Resistance	500 MΩ	•	•
Conductance	50 nS	•	•
Capacitance	100 mF	•	•
Frequency	1 MHz	•	•
Temperature	-200°C - +1350°C	•	•

* 20 A up to 30 seconds

323

324

325

Fluke 320 Series Clamp Meters

Cat. no.	Description
311120	Fluke 323
311122	Fluke 324
311124	Fluke 325

Funcions	323	324	325
Current AC	400 A	40 A / 400 A	40 A / 400 A
Current DC			40 A / 400 A
Voltage AC	600 V	600 V	600 V
Voltage DC	600 V	600 V	600 V
Resistance	400 Ω / 4000 Ω	400 Ω / 4000 Ω	400 Ω / 4000 Ω
Capacitance		100 µf to 1000 µF	100 µf to 1000 µF
Frequency			5 Hz to 500 Hz
Temperature		-10°C - +400°C	-10°C - +400°C
Max. wire diameter	30 mm	30 mm	30 mm

373

374

375

376

Fluke 370 Series Clamp Meters

Cat. no.	Impa no.	Description
311172		Fluke 373
311174	795733	Fluke 374
311176		Fluke 375
311178		Fluke 376

Funcions	373	374	375	376
Current AC	600 A	600 A	600 A	999,9 A
Current DC		600 A	600 A	999,9 A
Voltage AC	600 V	600 V	600 V	1000 V
Voltage DC	600 V	600 V	600 V	1000 V
Resistance	0 - 6000 Ω	0 - 6000 Ω	0 - 6000 Ω	0 - 60 kΩ
Capacitance		100 µf to 1000 µF	100 µf to 1000 µF	100 µf to 1000 µF
Frequency			500 Hz	500 Hz
Max. wire ø	32 mm	34 mm	34 mm	34 mm

353

355

Fluke 350 Series AC/DC Clamp Meters

Cat. no.	Description
311166	Fluke 353
311170	Fluke 355

Funcions	353	355
Current AC	2000 A	2000 A
Current DC	2000 A	2000 A
Voltage AC		600 V
Voltage DC		1000 V
Resistance		0 - 400 kΩ
Frequency		5 Hz to 999 Hz
Max. wire diameter	58 mm	58 mm

T5-600

T5-1000

Fluke T5 Electrical Testers

Cat. no.	Description
310684	Fluke T5-600
310690	Fluke T5-1000

Funcions	T5-600	T5-1000
Display Count	1000	1000
Automatic Selection	•	•
Continuity and Bleeper	•	•
Sleep Mode	•	•
Voltage AC	600 V	1000 V
Voltage DC	600 V	1000 V
Current AC	100 A	100 A
Resistance	1000 Ω	1000 Ω

Fluke 1AC II Volt Alert

Cat. no.	Description
310760	Fluke 1AC II Volt Alert™, 90-1000 V AC

Fluke 2042 Cable Locator

Cat. no.	Impa no.	Description
311756	652750	Fluke 2042 Cable Locator in Hard case

1577

1587

Fluke Insulation Multimeters

Cat. no.	Description
311328	Fluke Isolation Multimeter 1577
311330	Fluke Isolation Multimeter 1587

1507

Fluke Insulation Tester

Cat. no.	Description
311306	Fluke Insulation Tester 1507

1550C

Fluke Insulation Tester

Cat. no.	Description
311324	Fluke MegOhmMeter 1550C

123

Fluke ScopeMeter® 120 Series

Cat. no.	Description
311512	Fluke Scopemeter 123

725ex

725ex

Fluke 725Ex Multifunction Process Calibrator

Cat. no.	Description
311554	Fluke Process Calibrator 725
311556	Fluke Process Calibrator 725ex

707

707Ex

Fluke 707/707Ex Loop Calibrator

Cat. no.	Description
311570	Fluke Loop Calibrator 707
311572	Fluke Loop Calibrator 707Ex

Fluke 771 mA Process Clamp Meters

Cat. no.	Description
311604	Fluke mA Process Clamp Meter 771

Fluke 787 Process Meter

Cat. no.	Description
311612	Fluke Process meter 787

i200 i400

i410 i1010

Fluke Current Clamps for Digital Multimeters

Cat. no.	Type	Current AC	Current DC	Dia Hole
311812	i200	200 A	---	20 mm
311818	i400	400 A	---	32 mm
311824	i410	400 A	400 A	30 mm
311830	i1010	600 A	1000 A	30 mm

i200s i1000s

80i-110s

Fluke Current Clamps for Digital ScopeMeter

Cat. no.	Type	Current AC	Current DC	Dia Hole
311912	i200s	200 A	---	20 mm
311924	i1000s	800 A	---	54 mm
311930	80i-110s	100 A	100 A	11,8 mm

80K6 80K40

Fluke High Voltage Probes

Cat. no.	Type	Description
312012	80K6	Fluke High voltage probe, 6.000V
312018	80K40	Fluke High voltage probe, 40.000V

TL71-1

TL75-1

TL76

Fluke Test Leads

Cat. no.	Type	Description
312512	TL71-1	Premium Test Lead Set
312524	TL75-1	Hard Point™ Test Lead Set
312518	TL76	All-in-one Test lead Set

TL221

TL222

TL224

TL27

TL28A

Fluke Modulair Test Leads

Cat. no.	Type	Description
312572	TL221	Extension Lead Set
312578	TL222	Silicone Test Lead Set
312584	TL224	Silicone Test Lead Set
312596	TL27	Heavy Duty Test Lead Set
312826	TL28A	Automotive Test Lead Set

TL220-1

TL223-1

TL225-1

TL80A-1

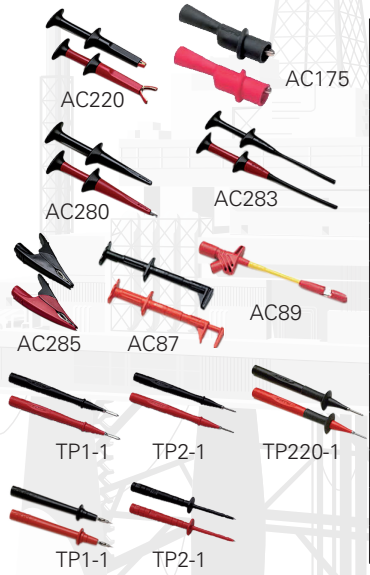
Fluke Kits

Cat. no.	Type	Description
312812	TL220-1	Industrial Test Lead Kit
312824	TL223-1	Electrical Test Lead Kit
312858	TLK225-1	Master Accessory Kit
312848	TL80A-1	Basic Electronic Test Lead Kit, in Case C75
312854	TL81A	Deluxe Electronic Test Lead Kit, in Case
312860	TLK287	Electronic Master Test Lead Kit, in Case
312862	TLK289	Industrial Master Test Lead Kit, in Case C116

TL81-A

TLK287

TLK289



Fluke Modular Probes & Clips

Cat. no.	Type	Description
312624	AC220	Alligator Clip Set
312630	AC175	Alligator Clip Set "Push-on"
312636	AC280	Hook Clip Set
312642	AC283	Pincer Clip Set
312648	AC285	Large Jaw Alligator Clip Set
312654	AC87	Heavy Duty Bus Bar Clip Set
312660	AC89	Heavy Duty Isolation Piecing Test Clip Red
312724	TP1-1	SlimReach Test Probe "flat"
312730	TP2-1	SlimReach Test Probe Ø 2mm
312754	TP220-1	Industrial Test Probes
312760	TP74	Lantern Tip Test Probe Set
312766	TP80	Electronic Test Probes Set

Fluke Soft Cases

Cat. no.	Type	Description	Sizes (HxWxD) mm
312912	C12A	Zipped Carrying Soft Case	172 x 128 x 38 mm
312918	C25	Zipped Carrying Soft Case	218 x 128 x 65 mm
312924	C50	Zipped Carrying Soft Case	192 x 90 x 38 mm
312930	C75	Zipped Carrying Soft Case	179 x 103 x 26 mm
312936	C90	Zipped Carrying Soft Case	205 x 90 x 72 mm
312940	C280	Zipped Carrying Soft Case	230 x 185 x 65 mm
312948	C781	Zipped Carrying Soft Case	269 x 141 x 90 mm
312954	C789	Large Fabric Carrying Case	308 x 256 x 77 mm

Fluke Hard Cases

Cat. no.	Type	Description	Sizes (HxWxD) mm
313024	C20	Meter Hard Case	256 x 154 x 106 mm
313030	C100	Meter and Acc. Hard Case	397 x 346 x 122 mm
313042	C120	Heavy Duty Hard Case	346 x 397 x 128 mm
313054	C800	Tough Polyprophylene Case	230 x 385 x 115 mm

C10

H3

H5

Fluke Holsters

Cat. no.	Type	Description	Sizes (HxWxD) mm
313124	C10	Holster Yellow	154 x 77 x 45 mm
313184	H3	Clamp Meter Holster	231 x 90 x 64 mm
313196	H5	Electrical Tester Holster	192 x 90 x 38 mm

Fluke Hanging Kit

Cat. no.	Type	Description
313160	TPAK	ToolPak Hanging set

62 MAX

63

561

566

568

572-2

Fluke 370 Series Clamp Meters

Cat. no.	Impa no.	Type	Description	Temperature Range
313402		62 MAX	Infrared thermometer	-30°C - +500°C
313404	651802	63	Infrared thermometer	-32°C - +535°C
313430		561	Infrared thermometer	-40°C - +550°C
313438	651804	566	Infrared thermometer	-40°C - +650°C
313442	651803	568	Infrared thermometer	-40°C - +800°C
313444	651806	572-2	Infrared thermometer	-30°C - +900°C

51 II

52 II

53 II

54 II

Fluke 50 Series II Thermometers

Cat. no.	Impa no.	Type	Description
313512	651753	51 II	Including 1x80PK1 wire probe
313518		52 II	Including 2x80PK1 wire probe
313524		53 II	Including 1x80PK1 wire probe
313530		54 II	Including 2x80PK1 wire probe

80PK-1

80PK-22

80PK-3A

80PK-24

80PK-25

80PK-27

80PK-8

80PK-9

Fluke Temperature Accessories

Cat. no.	Impa no.	Type	Description	Measurement range
313612		80PK-1	Bead Probe	-40°C - +260°C
313624		80PK-22	Immersion Probe	-40°C - +1090°C
313630	651771	80PK-3A	Surface Probe	0°C - +260°C
313636		80PK-24	Air Probe	-40°C - +816°C
313642		80PK-25	Piercing Probe	-40°C - +250°C
313654		80PK-27	industrial surface probe	-127°C - +600°C
313660	651777	80PK-8	Pipe Clamp Probe	-29°C - +149°C
313666		80PK-9	General Purpose Probe	-40°C - +260°C

80AK-A

80BK-A

80TK

80T-150UA

Fluke DMM-probes

Cat. no.	Impa no.	Type	Description	Measurement range
313824		80AK-A	Thermocouple Adapter	---
313618		80BK-A	Integrated DMM Bead Probe Wire	-40°C - +260°C
313724		80TK	Thermocouple Module including 80PK-1	-50°C - +1000°C
313712		80T-150UA	Universal Temperature Module with Probe	-50°C - +150°C

80CK-M

Fluke Temperature Accessories

Cat. no.		Type	Description
313812		80CK-M	Male Mini-connector

PV350

Fluke Pressure Module

Cat. no.		Type	Description
313912		PV350	Pressure Vacuum Module

DMM-44/100

BBS-1

BBS-2

BBS-3

DMM-11

KLK/KTK-15

Fluke Temperature Accessories

Cat. no.	Part no.	Type	Amp	Volt	Measurement range
313952	943121	DMM-44/100	440 mA	1000 V	10,3 x 34,9 mm
313950	830828	BBS-1	1 A	600 V	10,3 x 34,9 mm
313948	747600	BBS-2	2 A	600 V	10,3 x 34,9 mm
313946	756601	BBS-3	3 A	600 V	10,3 x 34,9 mm
313954	803293	DMM-11	11 A	1000 V	10,3 x 38,1 mm
313956	892583	KLK/KTK-15	15 A	600 V	10,3 x 38,1 mm

Smoke detector

Cat. no.	Impa no.	Description
320112	331072	Smoke detector unit, including battery 9V

fig. 1 fig. 2

Smoke detector test spray

Cat. no.	Impa no.	Description	Fig.
320160	331077	Aerosol type 918/5 Smoke detector spray 250ml	1
320618	331075	No Climb Smoke detector tester 150ml, type SmokeSabre	2
320224	331074	Siemens Aerosol Smoke detector spray 250ml, type REF-8	1
320524	331074	Solo Aerosol Smoke detector spray 250ml	2

fig. 3 fig. 4

fig. 1 fig. 2 fig. 3

Siemens Testing equipment for smoke detector units

Cat. no.	Impa no.	Description	Fig.
320212	331073	Smoke detector tester, type RE6 Aerosol dispenser with telescoop stick 1,6mtr till 4,1mtr	1
320218		Smoke detector tester, type RE6 Aerosol dispenser	2
320224	331074	Aerosol smoke detector spray 250ml, type REF-8	3

Siemens Extension sticks for smoke detector units

Cat. no.		Description
320270		Telescoop extension stick 1,6 mtr till 4,1 mtr
320276		Telescoop extension stick 2,4 mtr till 7,2 mtr

fig. 1 fig. 2 fig. 3

Solo Testing equipment for smoke detector units

Cat. no.	Impa no.	Description	Fig.
320512	331073	Smoke detector tester, type 330 Aerosol dispenser with stick 1,13 mtr	1
320518		Smoke detector tester, type 330 Aerosol dispenser	2
320524	331074	Aerosol smoke detector spray 250ml, type A3-001	3

fig. 1

fig. 2

fig. 3

Solo Testing equipment for heat detector units

Cat. no.	Impa no.	Description	Fig.
320530	331071	Heat detector tester 220V, type 424 with stick 1,13 meter	1
320534		Heat detector tester 110V, type 423	2
320536		Heat detector tester 220V, type 424	2
320540		Heat detector tester, Cordless on Battery, type 461	3

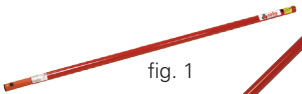


fig. 1

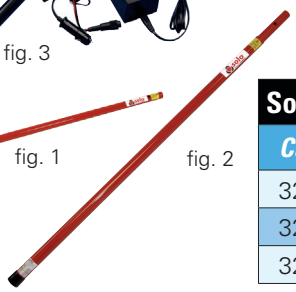


fig. 2

Solo Extension sticks for smoke and heat detector units

Cat. no.	Impa no.	Description	Fig.
320556		Extension stick 1,13 mtr	1
320560		Telescoop extension stick 1,2 mtr till 2,5 mtr	2
320564		Telescoop extension stick 1,2 mtr till 4,5 mtr	2

fig. 1

fig. 2

Flame detector tester

Cat. no.	Impa no.	Description	Fig.
320810		Flame detector tester, with pulse function	1
320816		Carrying case for above	2

SOLDERING IRONS

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

Soldering irons

Cat. no.	Impa no.	Voltage	Wattage	Description	Fig.
321112	795012	110V AC/DC	25 W	pen type	1
321124	795013	110V AC/DC	40 W	pen type	1
321136	795014	110V AC/DC	80 W	pen type	2
321152	795016	110V AC/DC	150 W	pen type	2
321318	795051	220V AC/DC	30 W	pen type	1
321330	795052	220V AC/DC	60 W	pen type	1
321342	795053	220V AC/DC	100 W	pen type	2
321360	795072	220V AC/DC	200 W	big pen type	3
321366	795073	220V AC/DC	300 W	hammer type	4
321372	795074	220V AC/DC	500 W	hammer type	4
321512	795036	110-120V AC	100 W	gun type	5
321536	795076	220-240V AC	100 W	gun type	5

fig. 1

fig. 2

Temperature controlled soldering station

Cat. no.	Description	Fig.
321624	Soldering station 220V AC	1
321630	Spare soldering tip for above	1

fig. 1

fig. 2

fig. 3

Cordless soldering iron

Cat. no.	Impa no.	Description	Fig.
321712	795001	Cordless soldering iron with stand 110V AC in box	1
321724		Cordless soldering iron with stand 220V AC in box	1
321756		Gas soldering set in box	2
321760		Gas can for above	3

fig. 1

fig. 2

fig. 3

fig. 4

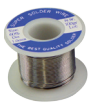


fig. 5

fig. 6

fig. 7

fig. 8

fig. 9

Cordless soldering iron			
Cat. no.	**Impa no.**	**Description**	**Fig.**
322112	795178	De-soldering Gun	1
322118	795179	Spare nozzle for de-soldering gun	2
322172		Desoldering braid 1,5mm, lenght of 1,5 mtr	3
322196	795176	Soldering stand with tip cleaning sponge	4
322312		Resin cored soldering wire 40/60 1,0 mm, roll of 100 gram	5
322324	795170	Resin cored soldering wire 40/60 1,5 mm, roll of 500 gram	6
322336	795172	Soldering bar 40/60, bar of 110 gram	7
322360	795174	Soldering paste (purine), can of 100 gram	8
322372		Soldering liquid (S39), can of 320ml	9

fig. 1

fig. 2

fig. 3

fig. 4

Insulated wire stripping pliers

Cat. no.	Impa no.	Description	Range mm²	Fig.
325112	611741	Wire stripping pliers	0,5 - 4,0	1
326008	611742	VDE Safety Wire stripping pliers	0,5 - 4,0	2
325124	611737	Automatic wire stripping pliers	0,2 - 6,0	3
325136	611736	Automatic wire stripping pliers	0,5 - 6,0	4

fig. 1

fig. 2

fig. 3

fig. 4

Electrician's knifes/scissors

Cat. no.	Impa no.	Description	Fig.
325312	611851	Electrician's wooden cable knife	1
325324		Electrician's Jokari style cable Knife	2
325336		Electrician's Cossanoy cable knife	3
325348		Electrician's insulated pair of scissors	2

Screwdrivers

Cat. no.	Impa no.	Description	Length mm
325718		Screwdriver flat blade 3.0 mm	100 mm
325724	612181	Screwdriver flat blade 5.0 mm	100 mm
325730	612182	Screwdriver flat blade 6.0 mm	150 mm
325742	612185	Screwdriver flat blade 8.0 mm	150 mm
325812	612192	Screwdriver Phillips/cross no. 0	100 mm
325818	612193	Screwdriver Phillips/cross no. 1	100 mm
325824	612194	Screwdriver Phillips/cross no. 2	125 mm
325830	612195	Screwdriver Phillips/cross no. 3	150 mm

VDE safety Insulated Electrician screwdrivers, 1000V tested

Cat. no.	Impa no.	Description	Length mm
326212		Screwdriver flat blade 2.5 mm	75 mm
326218		Screwdriver flat blade 3.0 mm	100 mm
326224	612261	Screwdriver flat blade 4.0 mm	100 mm
326230	612262	Screwdriver flat blade 5.5 mm	125 mm
326236	612263	Screwdriver flat blade 6.5 mm	150 mm
326242	612265	Screwdriver flat blade 8.0 mm	175 mm
326312	612272	Screwdriver Phillips/cross no. 0	60 mm
326318	612273	Screwdriver Phillips/cross no. 1	80 mm
326324	612274	Screwdriver Phillips/cross no. 2	100 mm
326328	612275	Screwdriver Phillips/cross no. 3	150 mm
326332	612276	Screwdriver Phillips/cross no. 4	200 mm
326408		Screwdrivers set of 7 pcs	

fig. 1

fig. 2

Sets Watch maker screwdrivers

Cat. no.	Impa no.	Description	Fig.
325872	612411	Watchmaker screwdriver flat blade, set of 6 pcs	1
325876	612412	Watchmaker screwdriver flat/cross blade, set of 11 pcs	2

fig. 1

fig. 2

fig. 3

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

Insulated pliers

Cat. no.	Impa no.	Description	Length mm	Fig.
325112	611741	Wire stripping plier	160 mm	1
325512	611659	Combination plier	185 mm	2
325524		Flat nose plier	160 mm	3
325536		Round nose plier	160 mm	4
325548	611696	Long nose plier	200 mm	5
325560		Bent nose plier	200 mm	6
325572	611718	Side cutting plier	165 mm	7
325584	611623	Water pump plier	300 mm	8

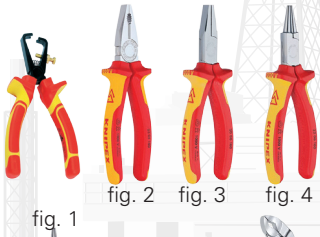


fig. 1 fig. 2 fig. 3 fig. 4

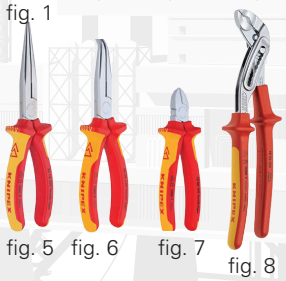


fig. 5 fig. 6 fig. 7 fig. 8

VDE safety Insulated Electrician pliers, 1000V tested

Cat. no.	Impa no.	Description	Length mm	Fig.
326008	611742	Wire stripping plier	160 mm	1
326012		Combination plier	180 mm	2
326024		Flat nose plier	160 mm	3
326036	611689	Round nose plier	160 mm	4
326048		Long nose plier	200 mm	5
326060		Bent nose plier	160 mm	6
326072	611727	Side cutting plier	160 mm	7
326084		Water pump plier	260 mm	8

VDE safety Insulated Electrician's tool kit, 1000V tested

Cat. no.		Description
326412		VDE Safety Electrician's Tool Kit 4 pliers & 7 screwdrivers

Adjustable wrenches

Cat. no.	Impa no.	Description	Total Length mm
325372	611327	Variable spanner like Bahco	200 mm

Hacksaws

Cat. no.	Impa no.	Description
325896	613424	Junior hacksaw frame 150 mm
325898	613425	Junior saw blades 150 mm, bag of 12 pcs
325902	613426	Hacksaw frame adjustable 250-300 mm
325906	613436	Saw blades 300mm, bag of 12 pcs

Hexagon allen wrenches

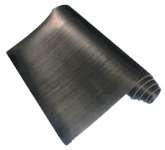
Cat. no.	Impa no.	Description
325882	611281	Hexagon allen wrenches 2 - 10 mm, set of 8 pcs

Caulking gun

Cat. no.	Impa no.	Description
171350	812603	Caulking gun for Sealant Cartridges

Caulking gun

Cat. no.	Impa no.	Description
171812	795531	Electrician gloves working 1.000V tested 5 kV class 0
171818	795532	Electrician gloves working 7.500V tested 10 kV class 1
171824		Electrician gloves working 17.000V tested 20 kV class 2



Corrugated rubber matting for electricity

Cat. no.	Impa no.	Description
171858	511098	Electricity insulating matting grey 3 mm thick, width 1 mtr, 17.000/20.000V tested, Class 2, with certificate Roll of 10 mtr

fig. 1

fig. 3

fig. 2

fig. 4

fig. 5

fig. 6

fig. 7

fig. 8

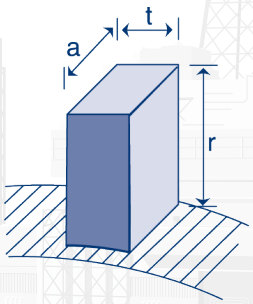
fig. 9

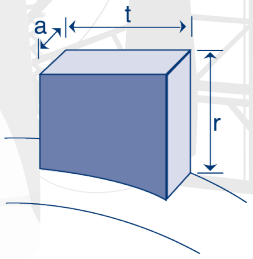
fig. 10

fig. 11

Power tools electric

Cat. no.	Impa no.	Description	Voltage	Power	Capacity	Fig.
328112	591002	Drill 2-speed	110V AC 50/60Hz		10 mm	1
328124	591003	Drill 2-speed	110V AC 50/60Hz		13 mm	2
328212	591022	Angle grinder	110V AC 50/60Hz		115 mm	4
328224	591024	Angle grinder	110V AC 50/60Hz		180 mm	5
328260	591171	Jig saw	110V AC 50/60Hz		75 mm	7
328312	591011	Hammer drill	230V AC 50/60Hz	500 W	13 mm	1
328324	591013	Hammer drill	230V AC 50/60Hz	710 W	13 mm	2
328360	590901	Cordless battery drill 18V	230V AC 50/60Hz		10 mm	3
328408	591031	Angle grinder	230V AC 50/60Hz	500 W	ø 115 mm	4
328412	591032	Angle grinder	230V AC 50/60Hz	880 W	ø 125 mm	4
328424	591034	Angle grinder	230V AC 50/60Hz	2000 W	ø 230 mm	5
328430	591056	Bench grinder	230V AC 50/60Hz	150 W	150 mm	6
328432	591057	Bench grinder	230V AC 50/60Hz	250 W	150/200 mm	6
328460	591172	Jig saw	230V AC 50/60Hz	570 W		7
328466	591174	Saw blades for Jig Saw	---		set of 10 pcs	8
328470	591145	Hand circular saw	230V AC 50/60Hz	1200 W		9
328478	591082	Orbital sander	230V AC 50/60Hz	135 W		10
328488	591137	Electric planer	230V AC 50/60Hz	650 W	82 mm	11





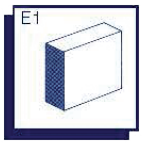
For quick supply of carbon brushes we need some information:

Size
Internationally the dimensions are indicated **t x a x r** (mm)
t = stands for the size opposite the commutator/slip ring surface.
a = stands for the width measured in the shaft direction.
r = stands for the radial direction size or the height.
In short you can also give the depth **x** width **x** height and advise whether the brushes are for use with communtator or slip-ring.

Carbon Grade:
See next pages.....

Cable (shunt) length:
You might indicate the visible length, in critical circumstances, however, we advise you to give the length measured to the centre of the terminal.
As mention cable should be insulated or not.

Terminal Type:
Available according the drawing on page..., with several mounting holes for instance: bolt M4 etc.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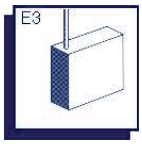
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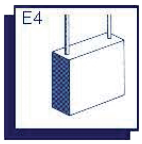
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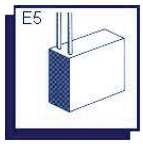
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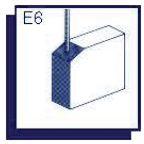
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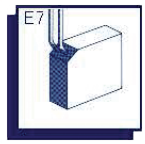
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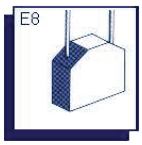
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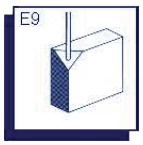
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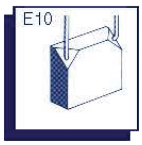
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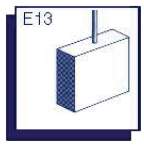
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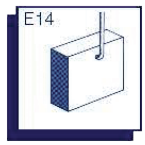
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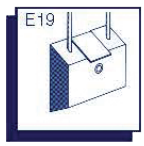
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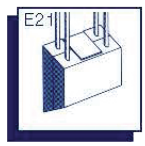
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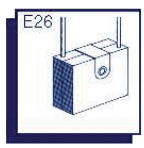
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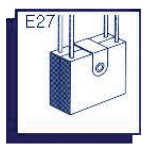
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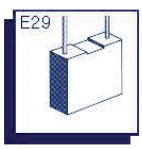
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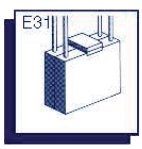
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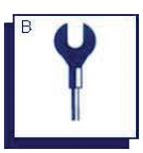
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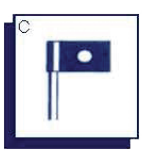
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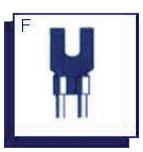

F

G

H

Every carbon brush has an engraved quality indication.

Graphite grades

Grade group A: Natural Graphite

Quality: grey coloured, soft grade.
Suitable: steel slip rings for high speed.
Appears as: G4, G6, G160, RE50, TG111, TD931, 634, LFC3A, etc.

Grade group B: Electro Graphite

Quality: grey coloured, soft grade.
Suitable: slip rings and on commutators when low loads occur.
Appears as: EH3, G158, RE54, RE92, EG34D, EG389, E43, E46, EGO, EG260, AY, etc.

Grade group C: Electro Graphite

Quality: black, relatively hard grade, good commultating.
Suitable: big and medium-sized DC generators
Appears as: G151, G162, EH66, 6677, RE59W, RE60, EG367, SA35,SA45, E49, E50, etc.

Grade group D: Electro Graphite

Quality: black coloured, hard grade.
Suitable: general purpose DC motor and generator grades for high load applications.
Appears as: G157, EH34, EG98B, 255, E27, etc.

Grade group E: Special Graphite

Quality: high commultating.
Suitable: AC commutator motors and small DC motors.
Appears as: G124, G130, RX88, RX90, RX91, BG469, BG530, IM02, IM102, IM23, F45, F46, etc.

Every carbon brush has an engraved quality indication.

Graphite grades

Grade group F: Amorphous Carbon

Quality: high polish ability.
Suitable: small fractional HP motors.
Appears as: H2, H4, H8, RH30, D450, AA, A, C4, etc.

Grade group G: Metal Graphite

Quality: copper grade between 60-75%.
Suitable: slip rings.
Appears as: M65, M70, MH63, RC73, 3316, CG6535, CG75, MK65, CM5H, A12S, C39, etc.

Grade group H: Metal Graphite

Quality: high copper grade.
Suitable: slip rings high loads.
Appears as: M87, M195, M291, RC87, RC95, CM0, CM1, B91, B101, C151 etc.

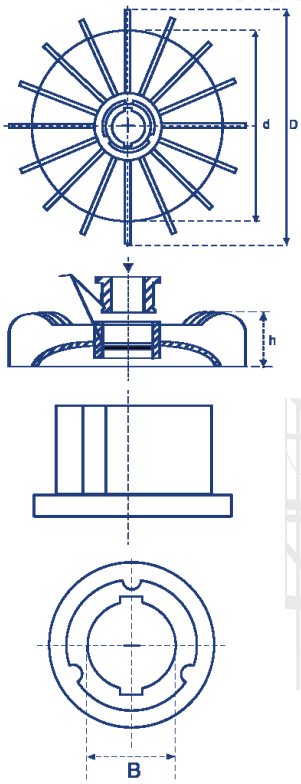
Grade group I: Silver Graphite

Quality: high conductivity.
Suitable: tacho dynamo, shaft earthing.
Appears as: A50, A80, A90. CAG, AG20, etc.

Carbon Bruches					
Cat. no.	**Dimensions mm**	**Graphite**	**Model**	**Term**	**Remarks**
330112	3,5 x 3,5 x 12,5	I	E 6 (2x)	B-3	Tacho
330116	3,5 x 5 x 14	I	E 6 (2x)	B-3	Tacho
330120	5 x 5 x 7	E	KVE		Makita
330124	5 x 5 x 18	F	KVE		Bosch
330128	5 x 6 x 11	E	KVE		Tacho
330132	5 x 6.4 x 13	G	E 3	A-3	Siemens 110.500
330136	5 x 8 x 12	E	KVE		Makita
330140	5 x 8 x 15	F	KVE		Bosch/AEG
330144	6 x 6 x 23	F	KVE		Siemens 802
330148	6 x 9 x 25	C	KVE		Electralux
330152	6 x 10 x 18.5	E	KVE		Makita
330156	6 x 13 x 25	C	KVE		Bosch/Flex
330160	6,3 x 6,3 x 17	F	KVE		D & B/Bosch
330164	6,3 x 8 x 20	D	E6	B-3	AEG
330168	6,4 x 6,4 x 20	C	E14	A-4	Bosch
330172	6,4 x 6,4 x 20	I	E9	A-4	Siemens Tacho
330176	6,4 x 12,5 x 24	C	KVE		AEG
330180	6,4 x 16 x 22	F	E29/1kabel	A-4	Bosch
330184	6,5 x 7,5 x 13,5	E	KVE		Hitachi
330188	6,5 x 7,5 x 18	E	KVE		Hitachi
330192	6,5 x 13,5 x 18	E	KVE		Makita
330196	6,5 x 13,5 x 22	E	KVE		Makita
330200	7 x 11 x 18,5	E	KVE		Hitachi
330204	7 x 11 x 31,7	C	KVE		Miele
330208	7 x 13 x 18,5	E	KVE		Hitachi
330212	7 x 15 x 18,5	E	KVE		Hitachi
330216	7 x 17 x 18,5	E	KVE		Hitachi
330220	8 x 10 x 25	B	E6	A-4	AEG
330224	8 x 12,5 x 25	C	E6	A-4	Siemens/Hansa
330228	8 x 16 x 25	B	E6	B-6	Siemens V52
330232	8 x 16 x 32	D	E6	A-6	Baumüller
330236	8 x 16 x 32	E	E6	A-6	Siemens G8
330240	8 x 19 x 25	E	E6	A-4	El. Faurndau
330244	8 x 20 x 25	C	E6	B-6	Siemens V8.20
330248	8 x 23 x 26	B	E3	B-6	Indar
330252	10 x 10 x 20	B	E6	B-5	Smit
330256	10 x 12,5 x 32	C	E6	A-6	Siemens KG10
330260	10 x 16 x 25	B	E6	A-6	Hansa
330264	10 x 20 x 25	B	E6	B-6	Thrige
330268	10 x 20 x 32	B	E6	A-6	Siemens V63
330272	10 x 20 x 32	C	E6	B-6	AEG/Lloyd

Continuation: Carbon Bruches					
Cat. no.	**Dimensions mm**	**Graphite**	**Model**	**Term**	**Remarks**
330276	10 x 20 x 32	I	E6	B-6	Shaft earthing
330280	10 x 25 x 32	C	E6	B-6	Siemens V10.25
330284	12 x 30 x 35	B	E3	B-6	Indar
330290	12,5 x 16 x 32	B	E6	B-6	Siemens KG16
330296	12,5 x 16 x 32	C	E6	B-6	Siemens KG16
330302	12,5 x 20 x 32	B	E6	B-6	Thriga/Hansa
330308	12,5 x 20 x 32	C	E6	A-6	Siemens KG20
330314	12,5 x 25 x 32	B	E6	A-6	Siemens V74
330320	12,5 x 25 x 32	C	E6	A-6	Siemens V101
330326	12,5 x 25 x 32	G	E6	B-6	Lloy/AEG
330332	12,5 x 25 x 35	I	E6	B-6	Shaft earthing
330338	12,5 x 25 x 40	B	E6	B-6	Smit
330344	12,5 x 25 x 40	C	E6	B-6	Smit
330350	12,5 x 25 x 40	D	E6	B-6	Smit
330356	12,5 x 32 x 32	C	E5	B-6	Siemens V12.32
330362	12,5 x 32 x 32	C	E33		Siemens W12
330368	12,5 x 32 x 40	B	E4	G-6	AEG
330374	16 x 20 x 32	B	E6	B-4	Thrige
330380	15 x 30 x 30	C	E24	A-6	BBC
330384	16 x 25 x 40	B	E3		
330386	16 x 25 x 40	C	E10/E28	G-6	Siemens G25
330392	16 x 25 x 40	C	E6	B-6	Smit
330398	16 x 25 x 50	C	E5	A-6	Siemens G25
330404	16 x 32 x 32	B	E5	A-6	Siemens V16.32
330410	16 x 32 x 32	C	E5	A-6	Siemens V16.32
330416	16 x 32 x 40	B	E5	B-6	Siemens V85
330422	16 x 32 x 40	B	E4	G-6	AEG/BBC
330428	16 x 32 x 40	C	E4	G-6	AEG/BBC
330434	16 x 32 x 40	D	E4	G-6	AEG/BBC
330440	16 x 32 x 50	B	E27	B-6	Smit/ASEA
330446	16 x 32 x 50	C	E27	B-6	Smit/ASEA
330452	16 x 32 x 50	D	E27	B-6	Smit/ASEA
330458	16 x 40 x 40	C	E33		Siemens W16
330464	16 x 40 x 40	G	E33		Siemens W16
330470	20 x 32 x 32	B	E24	A-6	BBC
330476	20 x 32 x 40	C	E5	F-6	Siemens
330482	20 x 40 x 40	G	E33		Siemens W20
330488	20 x 40 x 50	B	E5	G-8	Siemens V96
330494	25 x 32 x 40	G	E10/E28	G-6	Morgan
330500	30 x 30 x 40	B	E24	A-6	BBC
330506	30 x 30 x 50	B	E24	A-6	BBC

FAN BLADES



Cat. no.	Description	Overall Description	Blind dia (d) mm	Height (H) mm	Shaft (B) mm
340112	Fan blade	123	101	27	--
340124	Fan blade	131	116	27	--
340160	Shaft bushes	for above Fan blade			self-tap
340166	Shaft bushes	for above Fan blade			14
340172	Shaft bushes	for above Fan blade			16
340178	Shaft bushes	for above Fan blade			19
340184	Shaft bushes	for above Fan blade			20

Cat. no.	Description	Overall Description	Blind dia (d) mm	Height (H) mm	Shaft (B) mm
340212	Fan blade	165	135	33	--
340224	Fan blade	172	147	38	--
340260	Shaft bushes	for above Fan blade			self-tap
340266	Shaft bushes	for above Fan blade			24
340272	Shaft bushes	for above Fan blade			25
340278	Shaft bushes	for above Fan blade			30

Cat. no.	Description	Overall Description	Blind dia (d) mm	Height (H) mm	Shaft (B) mm
340312	Fan blade	214	175	47	--
340324	Fan blade	247	203	55	--
340360	Shaft bushes	for above Fan blade			self-tap
340366	Shaft bushes	for above Fan blade			28
340372	Shaft bushes	for above Fan blade			30
340378	Shaft bushes	for above Fan blade			32
340384	Shaft bushes	for above Fan blade			40
340390	Shaft bushes	for above Fan blade			45

Cat. no.	Description	Overall Description	Blind dia (d) mm	Height (H) mm	Shaft (B) mm
340412	Fan blade	295	242	55	--
340424	Fan blade	335	280	55	--
340460	Shaft bushes	for above Fan blade			self-tap
340466	Shaft bushes	for above Fan blade			42
340472	Shaft bushes	for above Fan blade			45
340478	Shaft bushes	for above Fan blade			50

CAPACITORS

Motor-run capacitor with 250 mm twin-cable and M-8 bottom screw			
Cat. no.	Voltage	µF	Size dia x L mm
345112	400	1	30 x 64
345118	400	2	30 x 64
345124	400	3	30 x 64
345130	400	4	30 x 64
345136	400	5	30 x 64
345142	400	6	30 x 64
345148	400	7	30 x 64
345154	400	8	30 x 64
345160	400	10	30 x 78
345166	400	12	30 x 78
345172	450	16	30 x 96
345178	450	20	30 x 96
345184	450	25	30 x 96
345190	400	30	40 x 102
345196	400	35	40 x 102
345202	400	40	50 x 96
345208	400	45	50 x 96
345214	400	50	50 x 96
345220	400	60	50 x 127
345226	450	80	50 x 127
345232	400	100	50 x 127

TERMINAL BOARDS

Terminal boards for electric motors, 3-pole, 6 connections						
	Dimensions mm			Center to	diam	
Cat. no.	Length	Width	Height	center holes	hole mm	Bolt
347112	40	25	10	15 mm	4,5	M4
347118	44	28	9	15 mm	4,5	M4
347124	50	32	10	18 mm	4,5	M4
347136	56	36	11	20 mm	5,5	M5
347142	64	40	12	23 mm	6,2	M5
347148	64	40	12	23 mm	7,0	M5
347154	70	45	13	25 mm	6,5	M6
347160	78	48	14	28 mm	6,0	M6
347172	82	52	15	30 mm	7,0	M6
347178	95	60	16	35 mm	7,0	M8
347190	114	70	18	44 mm	7,0	M8
347196	120	75	20	45 mm	11,5	M10

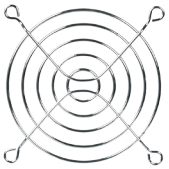
ELECTRIC FANS

fig. 1

fig. 2

fig. 3

fig. 4



Oscillating fans

Cat. no.	Impa no.	Description	Voltage	ø Fan blade	Fig.
348212	174761	Desk fan	130 V 50/60Hz	300 mm	2
348412		Desk fan	230 V 50/60Hz	150 mm	1
348424		Desk fan	230 V 50/60Hz	225 mm	1
348436		Desk fan	230 V 50/60Hz	300 mm	2
348446	174763	Desk fan	230 V 50/60Hz	400 mm	2
348448	174764	Wall-fan	230 V 50/60Hz	400 mm	3
348472		Fan on stand	230 V 50/60Hz	400 mm	4

Mini cooling fans

Cat. no.	Voltage	Sizes
348696	12 V DC	80 x 80 x 25 mm
348698	24 V DC	80 x 80 x 25 mm
348710	12 V DC	120 x 120 x 38 mm
348712	24 V DC	120 x 120 x 38 mm
348724	115 V 50/60Hz	120 x 120 x 38 mm
348736	220-240 V 50/60Hz	120 x 120 x 38 mm
348768	Finger guard for cooling fan	80 x 80 mm
348772	Finger guard for cooling fan	120 x 120 mm

ELECTRIC BLOWERS

Blower / Heaters for cleaning and drying electrical equipment

Cat. no.	Description	Voltage	Wattage	Setting °C
349212	Blower / Heater	120 V	1300 W	100 till 600°C
349224	Blower / Heater	230 V	2000W	300/600°C
349236	Blower / Heater	230 V	1600 W	100 till 600°C

Blower-suck machine

Cat. no.	Impa no.	Description	Voltage
349512	591181	Blower-suck machine	110 V 50/60Hz
349524	591182	Blower-suck machine	230 V 50/60Hz

Coffee makers

Cat. no.	Impa no.	Description	Voltage	Capacity
350212	174533	Coffee maker	110 V AC	10 - 12 cups
350260	174535	Coffee maker	220 V AC	10 - 12 cups

Coffee makers

Cat. no.	Impa no.	Description	Voltage
350360	175042	Coffee mill	110 V AC
350372	175043	Coffee mill	220 V AC

Electric thermo pots

Cat. no.	Impa no.	Description	Voltage	Capacity
350318	174527	Electric thermo pot	110 V AC	3,9 liter
350324	174529	Electric thermo pot	220 V AC	3,9 liter

Water boiler

Cat. no.	Impa no.	Description	Voltage	Capacity
350512	174505	Water boiler	120 V AC	1,7 liter
350536	174509	Water boiler	220 V AC	1,7 liter

Hand mixers

Cat. no.	Description	Voltage
350712	Hand mixer	120 V AC
350724	Hand mixer	220 V AC

Toasters, automatic

Cat. no.	Impa no.	Description	Voltage	Capacity
350812	174551	Toaster automatic	120 V AC	2 slices
350824	174552	Toaster automatic	120 V AC	4 slices
350836	174553	Toaster automatic	220 V AC	2 slices
350848	174554	Toaster automatic	220 V AC	4 slices

Electric steam irons

Cat. no.	Impa no.	Description	Voltage
350912	174722	Electric steam iron	120 V AC
350924	174724	Electric steam iron	230 V AC

Blenders

Cat. no.	Impa no.	Description	Voltage	Capacity
351012	174562	Blender	120V AC	1,5 liter
351024	174564	Blender	230V AC	1,5 liter

Rice cookers

Cat. no.	Impa no.	Description	Voltage	Capacity
351224	174606	Rice cooker	110 V AC	4,6 liter
351248	174614	Rice cooker	220 V AC	1,8 liter
351260	174616	Rice cooker	220 V AC	4,2 liter

Hot plates

Cat. no.	Impa no.	Voltage	Wattage	Plate in ø mm
351424	174502	120 V AC	1200 W	ø152 mm
351448	174503	220 V AC	1500 W	ø 152 mm
351460		220 V AC	750 / 1500 W	ø 152 / 187 mm

Hot plates with switch and roll-framework

Cat. no.	Voltage	Wattage	Plate in ø mm
351612	110 V AC	1500 W	ø 187 mm
351624	110 V AC	1000 / 1500 W	ø 152 / 187 mm
351648	220 V AC	1500 W	Ø187 mm
351660	220 V AC	1000 / 1500 W	Ø152 / 187 mm

Microwave ovens

Cat. no.	Impa no.	Description	Voltage	Capacity
351808	175091	Microwave oven	110 V 60Hz	20 liter
351812	175093	Microwave oven	110 V 60Hz	30 liter
351824	175096	Microwave oven	220 V 60Hz	20 liter
351828	175098	Microwave oven	220 V 60Hz	30 liter

Wall clock

Cat. no.	Impa no.	Description
351912	370204	Wall clock, battery operated

Insect killer lamp

Cat. no.		Description
352112		Insect killer lamp 230V

Drinking water coolers

Cat. no.	Impa no.	Description	Voltage
352312	174661	Drinking water cooler	110 V 50/60Hz
352324	174662	Drinking water cooler	230 V 50/60Hz

Refrigerators, compressor system

Cat. no.	Impa no.	Content Cool / Freeze	Voltage	Dimensions (HxWxD) cm
353112	174641	43 / 7 liter	220 V 50/60Hz	48 x 47 x 44 cm, single door
353124	174643	100 / 10 liter	220 V 50/60Hz	85 x 50 x 52 cm, single door
353140	174649	275 / 0 liter	220 V 50/60Hz	145 x 60 x 60 cm, single door
353150	174647	166 / 46 liter	220 V 50/60Hz	144 x 60 x 56 cm, double door
353164		283 / 87 liter	220 V 50/60Hz	171 x 60 x 60 cm, double door

Freezer, chest-type

Cat. no.		Content	Voltage	Dimensions (HxWxD) cm
353872		368 liter	220 V 50/60Hz	85 x 111 x 74 cm

Ice cube maker

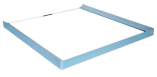
Cat. no.	Impa no.	Capacity - Stock	Voltage	Dimensions (HxWxD) cm
354036	174657	25 kg/24 h - 9 kg	220 V 60Hz	80 x 40 x 50 cm

Dish washer

Cat. no.	Impa no.	Capacity sets	Voltage	Dimensions (HxWxD) cm
354536	174667	12 couverts	220 V 60Hz	85 x 60 x 60 cm

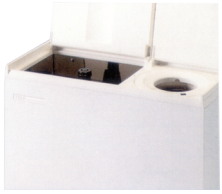
Washing machines, fully automatic, front loading

Cat. no.	Impa no.	Capacity	Voltage	Dimensions (HxWxD) cm
355138	174706	6 kg	110 V 60Hz	85 x 60 x 55 cm
355236	174707	5 kg	220 V 60Hz	85 x 60 x 55 cm
355242		7 kg	220 V 60Hz	85 x 60 x 55 cm



Dryer automatic, front loading

Cat. no.	Impa no.	Capacity	Voltage	Dimensions (HxWxD) cm
355536	174711	4,5 kg	110 V 60Hz	85 x 60 x 60 cm
355636	174712	6,0 kg	230 V 60Hz	85 x 60 x 60 cm
355712	Connecting-unit, to put Dryer on top of Washing machine			



Washing machines, agitating type and spin dryer (Twin-Tubs)

Cat. no.	Impa no.	Capacity	Voltage	Dimensions (HxWxD) cm
356524	174701	8,5 kg	110 V 60Hz	83 x 81 x 49 cm
356724	174702	8,5 kg	220 V 60Hz	83 x 81 x 49 cm

fig. 5

fig. 2

fig. 1

fig. 4

fig. 3

Vacuum cleaners

Cat. no.	Impa no.	Voltage	Description	Fig.
357124	174671	110 V AC/DC	Vacuum cleaner, sledge model	2
357132		110 V AC/DC	Vacuum cleaner, kettle model, Numatic	3
357136		110 V AC/DC	Vacuum cleaner, kettle model, Nilfisk	4
357148		110 V AC/DC	Vacuum cleaner, wet and dry, kettle model	5
357212		220 V AC/DC	Vacuum cleaner, compact model	1
357224	174672	220 V AC/DC	Vacuum cleaner, sledge model	2
357232		220 V AC/DC	Vacuum cleaner, kettle model, Numatic	3
357236		220 V AC/DC	Vacuum cleaner, kettle model, Nilfisk	4
357248		220 V AC/DC	Vacuum cleaner, wet and dry, kettle model	5

Paper dust bags for vacuum cleaners

Cat. no.	Description	Brand	For EC Cat. no.
357512	Spare paper dust bags		357124
357524	Spare paper dust bags	Nilfisk	357136 and 357236
357536	Spare paper dust bags	Bestron	357224
357546	Spare paper dust bags	Numatic	357132 and 357232
357548	Spare paper dust bags		357248

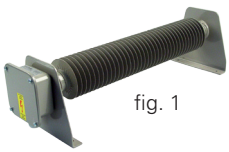


fig. 1

fig. 2

fig. 3

Ribbed tube heaters, watertight IP65

Cat. no.	Voltage	Wattage	Dimensions (H x W x ø) cm	Fig.
358424	110 V AC/DC	1000 W	1055 x 155 x rib ø 87 mm	1
358436	110 V AC/DC	1500 W	1555 x 155 x rib ø 87 mm	1
358512	220 V AC/DC	500 W	555 x 155 x rib ø 87 mm	1
358524	220 V AC/DC	1000 W	1055 x 155 x rib ø 87 mm	1
358536	220 V AC/DC	1500 W	1555 x 155 x rib ø 87 mm	1
358572	Thermostate with switch for above, non watertight IP30			2
358584	Thermostate for above, watertight IP65			3

Fan heater with thermostate

Cat. no.	Impa no.	Voltage	Wattage
358624	174775	110 V 50/60Hz	750 / 1500 W
358648	174776	220 V 50/60Hz	1000 / 2000 W

Immersion heater, complete with cord		
Cat. no.	*Voltage*	*Wattage*
358712	220 V AC/DC	2000 W

Self limiting heating cable				
Cat. no.	*Impa no.*	*Voltage*	*Wattage / meter*	*Description*
359112	794384	110 V	51 W	ordering by meter
359224	794387	220 V	15 W	ordering by meter
359236	794388	220 V	33 W	ordering by meter
359312		Connection set for above		
359318		Join connection set for above		

Complete sets, self limiting heating cable with thermostate			
Cat. no.	*Voltage*	*Wattage / meter*	*Description*
359512	230 V	16 W	complete set of 2 meter
359518	230 V	16 W	complete set of 4 meter
359524	230 V	16 W	complete set of 8 meter
359530	230 V	16 W	complete set of 12 meter
359536	230 V	16 W	complete set of 14 meter
359542	230 V	16 W	complete set of 18 meter
359548	230 V	16 W	complete set of 24 meter
359554	230 V	16 W	complete set of 36 meter
359560	230 V	16 W	complete set of 48 meter

Danfoss thermostats type RT

- High repeatability
- Interchangeable contact system
- Two cable entries
- IP54
- DEMKO approved
- Ship approved

Technical data

Contact system:	SPDT, interchangeable to other types
Contact load:	AC-1 Ohmic: 10A, 440V AC-3 (motor): 4A, 400V AC-11/15 (coil/transf.): 3A, 400V DC-13/14: 12W, 230V

	Adj. diff. range (°C)			*Sensor temp. (°C)*	*Maximum Cap. Tube lenght (m)*	*Type*
Cat. no.	*Setting range sett.*	*At lowest range sett.*	*At highest temp. (°C)*			
365212	-5 to 30	1.5 to 7	1.2 to 4	75	Room sensor	RT4
365218	10 to 45	1.3 to 7	1 to 5	100	Room Sensor	RT 103
365224	-5 to 30	2 to 8	2 to 10	150	2	RT 14
365230	-5 to 30	2 to 8	2 to 10	150	5	RT 14
365236	-5 to 30	2 to 8	2 to 10	150	8	RT 14
365242	25 to 90	2.4 to 10	3.5 to 20	300	2	RT 101
365248	25 to 90	2.4 to 11	3.5 to 21	300	5	RT 101
365254	70 to 150	6 to 25	1.8 to 8	215	2	RT 107
365260	70 to 150	6 to 25	1.8 to 8	215	5	RT 107
365266	120 to215	7 to 30	1.8 to 9	260	2	RT 120
365272	150 to 250	6.5 to 30	1.8 to 9	300	2	RT 123
365278	150 to 250	6.5 to 30	1.8 to 9	300	5	RT 123
365284	200 to 300	5 to 25	2.5 to 10	350	2	RT 124
365290	200 to 300	5 to 25	2.5 to 10	350	5	RT 124

For sensor pockets see page 381

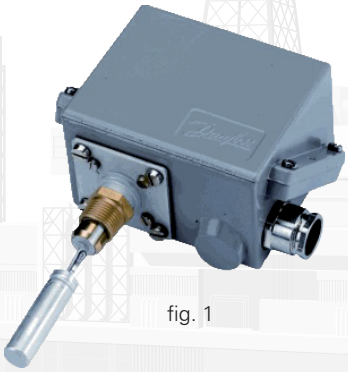


fig. 1

fig. 2

fig. 3

Danfoss thermostats type KPS

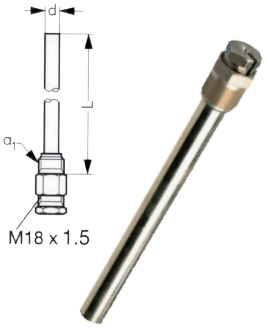
- For harsh environments
- Very robust construction
- Resistant to shock and vibration
- IP67
- Covers most outdoor and indoor application
- Suitable for alarm and regulation

Technical data

Contact load: AC-1 Ohmic: 10A, 440V
AC-3 (motor): 6A, 440V

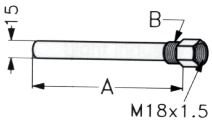
Cat. no.	Setting range sett.	Mech. diff. (°C)	Max. sensor temp. (°C)	Cap. Tube length (m)	Figure	Type
365412	20 to 60	3 to 14	130	--	1	KPS77
365418	20 to 60	3 to 14	130	2	2	KPS77
365424	20 to 60	3 to 14	130	2	3	KPS77
365430	50 to 100	4 to 16	200	--	1	KPS79
365436	50 to 100	4 to 16	200	2	2	KPS79
365442	50 to 100	4 to 16	200	2	3	KPS79
365448	70 to 120	4.5 to 18	220	--	1	KPS80
365454	70 to 120	4.5 to 18	220	2	2	KPS80
365460	70 to 120	4.5 to 18	220	2	3	KPS80

For sensor pockets see page 381



Danfoss thermostats pockets

Cat. no.	Thread (a)	Dia (d) mm	Sensor length (L) mm	Material
365612	G 1/2"	11 mm	112 mm	Brass
365624	G 1/2"	11 mm	112 mm	Stainless Steel 18/8



Sensor pockets for KPS thermostats only

Cat. no.	Thread (B)	Dia (d) mm	Sensor length (A) mm	Material
365660	G 1/2"	15 mm	110 mm	Brass
365672	G 1/2"	15 mm	110 mm	Stainless Steel 18/8

Danfoss pressure switches type RT

- High repeatability
- Interchangeable contact system
- Two cable entries
- IP54
- Manual or automatic reset
- DEMKO approved
- Ship approved

Technical data

Media:	Air, Gas, Liquid	
Contact system:	SPDT, interchangeable to other types	
Contact load:	AC-1 Ohmic:	10A, 440V
	AC-3 (motor):	4A, 400V
	AC-11/15 (coil/transf.):	3A, 400V
	DC-13/14:	12W, 230V

Cat. no.	*Setting range (bar)*	*Mech. diff. (°C)*	*Adjustable/ Fixed Differential (bar)*	*Maximum operating press. (bar)*	*pressure connection*	*Type*
366212	-1 to 0	0,09 to 0,4	0,09 to 0,4	7	G3/8"	RT121
366218	0 to 0.3	0,01 to 0,05	0,01 to 0,05	0,4	G3/8"	RT113
366224	0.1 to 1.1	0,07 to 0,16	0,07 to 0,16	7	G3/8"	RT112
366230	0.2 to 3	0,08 to 0,25	0,08 to 0,25	7	G3/8"	RT110
366236	0.2 to 6	0,25 to 1,2	0,25 to 1,2	22	G3/8"	RT200
366242	1 to 10	0,3 to 1,3	0,3 to 1,3	22	G3/8"	RT116
366248	4 to 17	1,2 to 4	1,2 o 4	22	G3/8"	RT5
366254	1- to 30	1 to 4	1 to 4	42	G3/8"	RT117

Danfoss pressure switches type KPS

- For harsh environments
- Very robust construction
- Resistant to shock and vibration
- IP67
- Covers most outdoor and indoor application
- Suitable for alarm and regulation
- Marine approved

Technical data

Media:	Air, Gas, Liquid	
Contact system:	SPDT, gold plated	
Contact load:	AC-1 Ohmic:	10A, 440V
	AC-3 (motor):	4A, 400V
	AC-11/15 (coil/transf.):	3A, 400V
	DC-13/14:	12W, 230V

Cat. no.	*Setting range (bar)*	*Adjustable/Fixed Differential (bar)*	*Maximum operating press. (bar)*	*pressure connection*	*Type*
366412	0 to 2.5	0.1	6	G3/8"	KPS31
366418	0 to 3.5	0.2	10	G3/8"	KPS33
366424	0 to 8	0.4 to 1.5	12	G3/8"	KPS35
366430	6 to 18	0.85 to 2.5	22	G3/8"	KPS37
366436	10 to 35	2.0 to 6	45	G3/8"	KPS39

Danfoss 2/2 Way direct operated valve

- Robust construction
- For neutral liquids and gases such as water, oil and compressed air
- Coil Enclosure up to IP67
- WRc approved versions
- Thread connections G1/8" to G1"
- Ambient temperature up to 800C
- Flow range for water up to 2.1m3/h

Technical data

Pressure range:	0 to 30 bar
Media:	Oil, air or water
Valve body:	brass

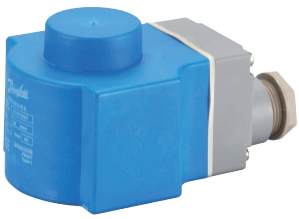
				Differential based on coil type BA		
Cat. no.	**End connection**	**Kv Valve m^3/h**	**Orifice mm**	**Max: 9W ac**	**15W dc**	**Min.**
367212	G1/8"	0.05	1.5	30	20	0
367218	G1/4"	0.05	01.5	30	20	0
367224	G3/8"	0.30	0.30	30	4	0

				Differential based on coil type BG		
Cat. no.	**End connection**	**Kv Valve m^3/h**	**Orifice mm**	**12W ac**	**20W dc**	**Min.**
367236	G3/8"	0.70	6.0	1.5	1.2	0
367242	G1/2"	2.85	15.0	0.2	0.09	0
367248	G3/4"	4.50	20.0	0.15	0.055	0
367254	G1"	8.00	25.0	0.07	0.035	0

Coils type BA/BG see next page.

Danfoss type BA/BG coils for direct operated valve		
Technical data	***Coil type BA - IP00 9W ac/15W dc***	***Coil type BG - IP67 12W ac/20W dc***
Power consumption:		
Cut in:	AC: 39VA	AG: 55VA
Holding:	AC: 19VA(9W), DC: 15W	AC: 26VA(12W), DC: 20W
Connection:	spade terminals	terminal box Pg 13.5
Enclosure:	IP00	IP67
With cable plug:	IP65	N/A

Cat. no.	***Supply voltage***	***Type BA (IP00)***
367402	12V DC	BA012D
367406	24V DC	BA024D
367412	24V 50Hz	BA024A
367424	24V 60Hz	BA024B
367436	115V 60Hz	BA115B
367448	230V 50Hz	BA230A
367460	220V 60Hz	BA220B
367472	380V 50Hz/440V 60Hz	BA380A
367512	Cable plug to IP65 enclosure	



Cat. no.	***Supply voltage***	***Type BG (IP67)***
367602	12V DC	BG012D
367606	24V DC	BG024D
367612	24V 50Hz	BG024A
367624	24V 60Hz	BG024B
367636	110V 60Hz	BG110B
367648	230V 50Hz	BG230A
367660	220V 60Hz	BG220B
367672	380V 50Hz/440V 60Hz	BG380A

Ammeters with 90⁰ scale, for panel mounting 72 x 72 mm			
Cat. no.	**Scale**	**Overload scaling**	**For use**
370112	10A	20A	AC - Direct
370124	15A	30A	AC - Direct
370136	25A	50A	AC - Direct
370140	40A	50A	AC - Direct
370148	60A	120A	AC - Direct
370156	100A	200A	AC - Direct
370212	25A	50A	AC-Current transformer 5 A
370220	40A	80A	AC-Current transformer 5 A
370224	60A	120A	AC-Current transformer 5 A
370236	100A	200A	AC-Current transformer 5 A
370248	200A	400A	AC-Current transformer 5 A
370260	400A	800A	AC-Current transformer 5 A

370312	25A	--	DC - Shunt 60mV
370320	40A	--	DC - Shunt 60mV
370324	60A	--	DC - Shunt 60mV
370336	100A	--	DC - Shunt 60mV
370348	150A	--	DC - Shunt 60mV
370360	200A	--	DC - Shunt 60mV

Voltmeters with 900 scale, for panel mounting 72 x 72 mm		
Cat. no.	**Scale**	**AC or DC**
370512	0 - 40 V	AC
370524	0 - 250 V	AC
370536	0 - 400 V	AC
370548	0 - 500 V	AC
370612	0 - 40 V	DC
370624	0 - 60 V	DC
370636	0 - 150 V	DC
370648	0 - 250 V	DC

Frequency meters with 90⁰ scale, for panel mounting 72 x 72 mm		
Cat. no.	***Scale Hz***	***Voltage***
370812	55-65 Hz	110 V
370824	45-55 Hz	230 V
370836	55-65 Hz	220 V
370848	45-55 Hz	400 V
370860	55-65 Hz	440 V

AC Current Transformer for Ammeters		
Cat. no.	***C.T. ratio***	***Power***
370912	25:5 A	0.5 VA
370920	40:5 A	0.5 VA
370924	60:5 A	2.0 VA
370936	100:5 A	2.0 VA
370948	200:5 A	4.0 VA
370960	400:5 A	5.0 VA

DC Shunts for Ammeter	
Cat. no.	***Description***
371112	Shunt 25A/60m V
371120	Shunt 40A/60m V
371124	Shunt 60A/60m V
371136	Shunt 100A/60m V
371148	Shunt 150A/60m V
371160	Shunt 250A/60m V

fig. 1

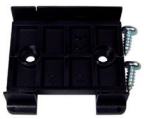


fig. 2

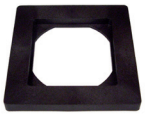


fig. 3

Hour meter, for panel mounting 48 x 48 mm		
Cat. no.	***Description***	***Fig.***
371212	Hour meter 10 - 80V DC	1
371218	Hour meter 24V 50Hz	1
371224	Hour meter 24V 60Hz	1
371230	Hour meter 110V 60Hz	1
371236	Hour meter 220V 50Hz	1
371242	Hour meter 220V 60Hz	1
371248	Hour meter 380V 50Hz	1
371254	Hour meter 440V 60Hz	1
371266	Adaptor for surface and DIN mounting	2
371278	Adaptor 72 x 72 mm for Hour meter 48 x 48 mm	3

Victron Phoenix inverter with a output of 230V 50Hz*

Cat. no.	Type	Input voltage (DC)	Continuous power (W)	30-minute power (W)	Start up power (W)
375124	12/800	12	700	800	1600
375148	12/1600	12	1300	1600	3000
375224	24/1200	24	1000	1200	2400
375248	24/3000	24	2500	3000	6000

*** 120V 60Hz and 220V 60 Hz on request**

Victron Phoenix/Skylla battery charger with a input of 185-264V 45-65Hz*

Cat. no.	Type	Output voltage	Accessory battery charging current Adc	Start-up battery charging current Adc
375524	12/30*	12	30	4
375568	24/30	24	30	4
375572	24/50	24	50	4
375596	24/100	24	100	4

*** Input 90-265V 45-65Hz**

Other Victron Energy types on request

Victron Phoenix Combi Multi inverter/charger Inverter part with a output of 230V 50Hz*

Cat. no.	Type	Input voltage (DC)	Continuous power (W)	30-minute power (W)	Start up power (W)
375724	12/1600/70	12	1300	1600	2300
375772	24/3000/70	24	2500	3000	6000

*** Battery charger part with a input of 185-265V 45-65Hz**

Cat. no.	Type	Input voltage	Accessory battery charging current Adc	Start-up battery charging current Adc
	12/1600/70	12	70	4
	24/3000/70	24	70	4

Other Victron Energy types on request

IGNITION MATERIAL

High voltage cable, test voltage 6000V		
Cat. no.	*Number of conductors x mm2*	*Outsite dia mm*
150212	1 x 1,5 mm^2	7

fig. 1

fig. 2

Spark-plug		
Cat. no.	*Description*	*Fig.*
377212	Protection cap, angle 90^0 isolated	1
377218	Connection plug, straight non-isolated	2

Ignition electrode for boilers, porcelain insulated		
Cat. no.	*Lenght porcelain mm*	*Diameter porcelain mm*
377284	127	11
377296	127	14

CHRISTMAS LIGHTINGS

Christmas lightings				
Cat. no.	*Impa no.*	*Description*	*Voltage*	*Lamps*
378112		X-mas Light set candle type lamps, clear	110	16
378172	111811	X-mas Light set mini type lamps, clear	110	35
378524		X-mas Light set candle type lamps, clear	220	16
378636	111813	X-mas Light set mini type lamps, clear	220	35
378652	111812	X-mas Light set mini type lamps, clear	220	50

fig. 1 fig. 2

Telepohones

Cat. no.	Impa no.	Description	Fig.
393112	370154	Telephone wall type, with tone/pulse switch	1
393124	370151	Telephone desk/wall type, with tone/pulse switch	2

fig. 1 fig. 2

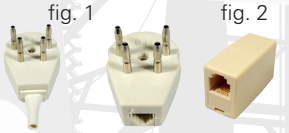


fig. 3 fig. 4 fig. 5

fig. 6

fig. 7

fig. 8 fig. 9 fig. 10

fig. 11

Telephone accessories

Cat. no.	Description	Fig.
393596	Telephone Receptacle 4-pole, surface mounting	1
393572	Telephone Receptacle 4-pole, flush mounting	2
393640	Telephone Plug 4-pole including tule	3
393652	Telephone Plug 4-pole with modulair connection	4
395312	Contact Block RJ11 (6P4C)	5
395318	Contact Block RJ12 (6P6C)	5
395332	Triple Adapter RJ11 (6P4C)	6
395338	Triple Adapter RJ12 (6P6C)	6
395352	Duplex Jack RJ11 (6P4C)	7
395358	Duplex Jack RJ12 (6P6C)	7
395380	Modular Plugs RJ10 (4P4C), for earpiece	8
395384	Modular Plugs RJ11 (6P4C), for telephone set	9
395388	Modular Plugs RJ12 (6P6C), for telephone exchange	10
395806	Metal Crimping Tool for Modular Plugs RJ10/11/12 (4P4C/6P4C/6P6C)	11

Telephone cable

Cat. no.	Number of conductors x mm²	Outside dia mm
150512	1 x 4 x 0,5 mm² + 0,5 mm²	4,4
150548	4 x 0,075 mm²	3,5

Modulair Telephone cable

Cat. no.	Number of conductors x mm²	Colour	Outside dia mm
150562	4 x 0,075mm²	Black	5 x 2,5
150568	4 x 0,075mm²	White	5 x 2,5

fig. 1

fig. 2 fig. 3 fig. 4

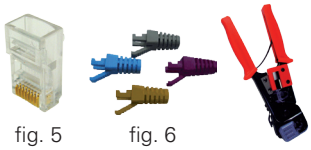


fig. 5 fig. 6 fig. 7

Network accessories

Cat. no.	Description	Fig.
395172	CAT-5 socket double, flush and surface mounting	1
395324	Contact Block/connector RJ45 (8P8C)	2
395344	Triple Adapter RJ45 (8P8C)	3
395364	Duplex Jack RJ45 (8P8C)	4
395394	Modular Plugs RJ45 (8P8C)	5
395398	Protecting Tule for Modular Plug RJ45	6
395812	Metal Crimping Tool for Modular Plugs RJ11/12/45 (6P4C/6P6C/8P8C)	7

Data cable, UTP

Conductor: Plain copper
Insulation: Vinyl - PVC

Cat. no.	Type	Number of conductors x mm²	Outside dia mm
150580	Cat-5e	4 x 2 x 0,5 mm²	4,9
150582	Cat-6	4 x 2 x 0,57 mm²	6,2

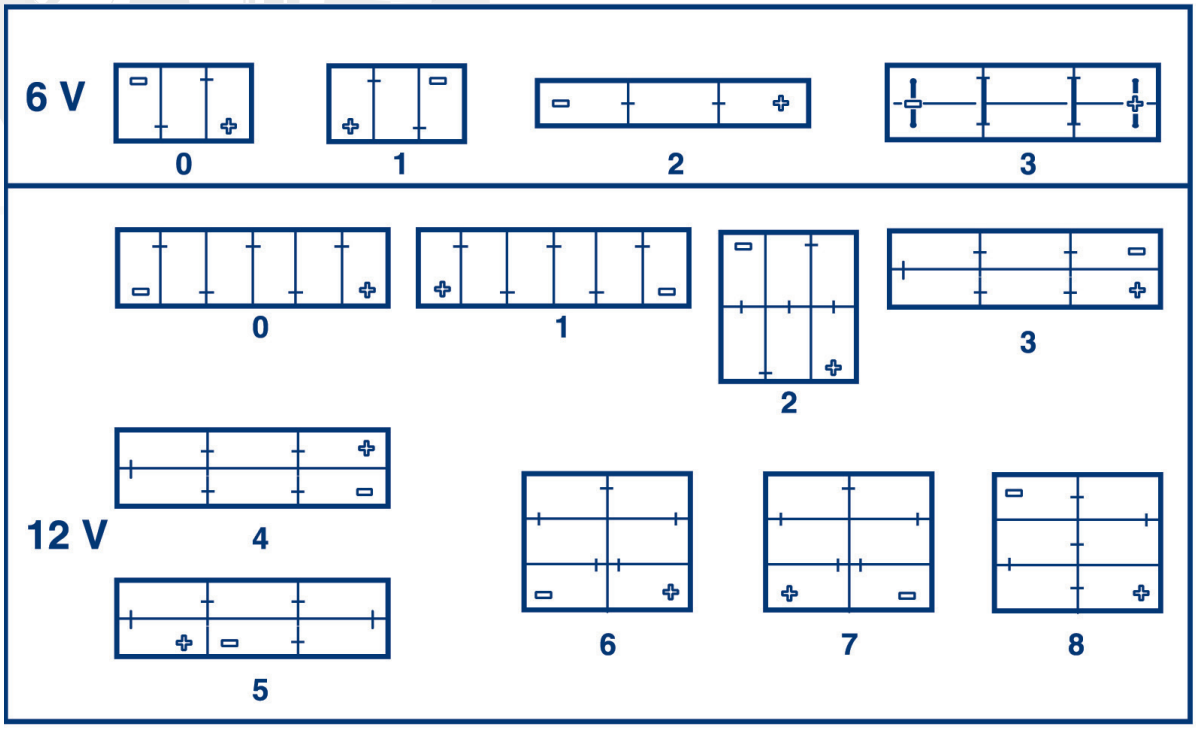
Data cable with armour, FTP

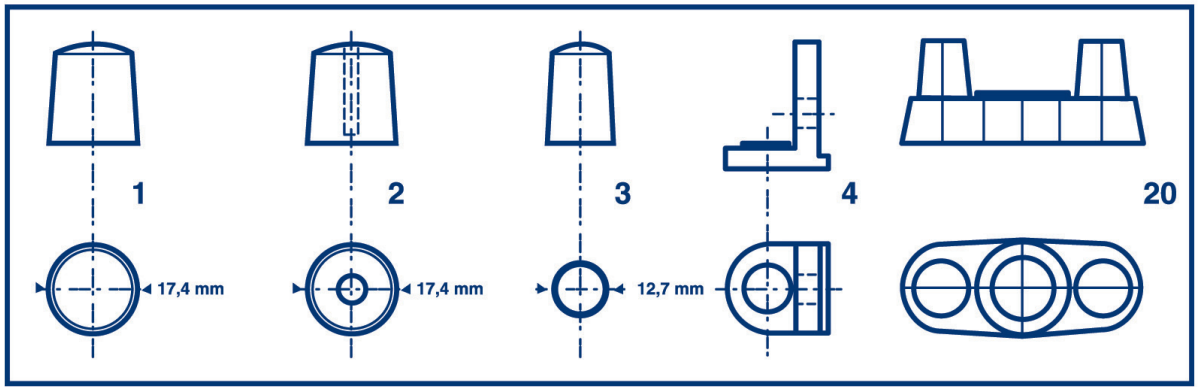
Conductor: Plain copper **Screen: Aluminium, polyester**
Insulation: Vinyl - PVC

Cat. no.	Type	Number of conductors x mm²	Outside dia mm
150590	Cat-5e	4 x 2 x 0,5 mm²	6,0
150592	Cat-6	4 x 2 x 0,57 mm²	7,2

Lan / Patch cables

Cat. no.	Impa no.	Description
150950	472848	Lan / Patch cable Cat5 grey, length 1 mtr
150952	472849	Lan / Patch cable Cat5 grey, length 2 mtr
150954	472850	Lan / Patch cable Cat5 grey, length 3 mtr
150960	472851	Lan / Patch cable Cat5 grey, length 5 mtr
150968	472852	Lan / Patch cable Cat5 grey, length 10 mtr
150974	472853	Lan / Patch cable Cat5 grey, length 20 mtr
150980	472854	Lan / Patch cable Cat5 grey, length 50 mtr


6 V
0
1
2
3
12 V
0
1
2
3
4
5
6
7
8


1
2
3
4
20
17,4 mm
17,4 mm
12,7 mm

Explanation of IP level of protection

1st characteristic figure: protection against entry of solid bodies.		2nd characteristic figure: protection against penetration of water.	
0	None	0	None
1	Solid bodies with size minimum over 50 mm	1	Condensation (falling drops vertical)
2	Solid bodies with size minimum over 2.5 mm	2	Condensation (falling drops with angle up to 15^0)
3	Treadlike bodies with diameter over 1 mm	3	Sprinkling with angle up to 60^0 from the vertical
4	Treadlike bodies with diameter over 1 mm	4	Splashing from all the directions
5	Dust (partial protection)	5	Jets from all the directions
6	Dust (total) protection	6	Water protection sea-storms
		7	Immersion temporary
		8	Immersion permanent

Fluorescent Colour Conversion tables

Colour Temp. °K	Philips	Osram	GE	Sylvania	Colour
4100	25	25	25	UW 125	Universal White
2950	29	30	29	WW 129	Warm White
4200	33	20	33	CW 133	Cool White
3400	35	23	35	W 135	White
3700	36	76	---	N 136	Natural
6200	54	10	54	D 154	Daylight
2700	827	41	827	HLX 182	Homelight de Luxe
3000	830	31	830	WWX 183	Warm White de Luxe
4000	840	21	840	CWX 184	Cool White de Luxe
6000	865	11	860	DX 186	Daylight de Luxe
2700	927	42	---	---	Homelight de Luxe
3000	930	32	930	WWX 193	Warm White de Luxe
3800	940	22	940	CWX 194	Cool White de Luxe
5000	950	12	---	----	Natural de Luxe
6500	960	72	---	----	Natural de Luxe

LAMP CHARACTERISTICS TABLE

Mercury Vapours

ILCOS	ZVEI code	Philips	Osram	GE	Silvania	Japenese	Base
QU	HME	HPL-N	HQL	H	HSL-BW	HF	E27/E40
---	HMR	HPL-RN	HQL-R	H.....R	HSR-BW	HFR	E27/E40

Metal Halide

ILCOS	ZVEI code	Philips	Osram	GE	Silvania	Japenese	Base
ME	HIE	HPI	HQI-E	---	HSI-SX	----	E40
MT	HIT	HPI-T	HQI-T	SPL	HSI-T	---	E40
MT	---	CMD-T	HQI-T	CMH....T	HSI-T	---	G12
MD	HIT-DE	MHN(W)-TD	HQI-TS	ARC....TD	HSI-TD	---	RX7s

Sodium High Pressure

ILCOS	ZVEI code	Philips	Osram	GE	Silvania	Japenese	Base
SE	HSE	SON	NAV-E	LU....D	SHP	NHF	E27/E40
ST	HST	SON-T	NAV-T	LU....T	SHP-T	NHT	E27/E40
SD	HST-DE	---	NAV-TS	LU....TD	SHP-TD	---	RX7s

Sodium Low Pressure

ILCOS	ZVEI code	Philips	Osram	GE	Silvania	Japenese	Base
---	LST	SOX	NA	SOX	SLP	---	BY22

Blended Light Mercury Vapours (self-bellasted)

ILCOS	ZVEI code	Philips	Osram	GE	Silvania	Japenese	Base
---	---	ML	HWL	ML	HSB-BW	BHF	E27/E40
---	---	ML-R	HWLR	ML-R	HSB-R	BHRF	E27/E40

Compact Fluorescent

ILCOS	ZVEI code	Philips	Osram	GE	Silvania	Japenese	Base
FSD	TC	PL-S 2pin	DULUX S	BIAX S	LYNX S	---	G23
FSD	---	PL-S 4pin	DULUX S/E	BIAX S/E	LYNX SE	---	2G7
FSQ	TC-D	PL-C 2pin	DULUX D	BIAX D 2pin	LYNX D	---	G24d-1/3
FSQ	TC-T/E	PL-G 4pin	DULUX D/E	BIAX D 4pin	LYNX DE	---	G24q-1/3
FSD	TC-L	PL-L	DULUX L	BIAX L	LYNX L	---	2G11
FSS	---	---	DULUX F	---	LYNX F	---	2G10
FBT	DS-E	PL-E	DULUX EL	FLE..DBX	MINI-LYNX	---	E14/E27

Conversion Table of AWG

Preferred sizes of conductors					
AWG	**mm2**	**circ. mills**	**AWG**	**mm2**	**circ. mills**
4/0	107.2	211.600	10	5.27	10.380
	95.0	187.000		4.0	7.890
3/0	85.0	167.800	12	3.31	6.530
	70.0	138.00		2.5	4.930
2/0	67.5	133.100	14	2.08	4.110
1/0	53.4	105.600		1.5	2.960
	50.0	98.700	16	1.31	2.580
1	42.4	83.690		1.0	1.970
	35.0	69.100		0.90	1.773
2	33.6	66.360	18	0.82	1.620
3	26.7	52.620		0.80	1.578
	25.0	49.300		0.75	1.480
4	21.2	41.740		0.60	1.182
	16.0	31.600	20	0.51	1.020
6	13.3	26.240		0.50	987
	10.0	19.700	22	0.32	640
8	8.4	16.510	24	0.20	404
	6.0	11.800	26	0.13	253

Conversion Table of Pressure

				Mercurial	Columm	Water Columm	
bar	**kg/cm³**	**ib/in²**	**S.B.P.**	**m**	**in**	**m**	**ft**
1	1.01970	14.5	0.98690	0,75010	29.53	10.197	33.48
0,98070	**1**	14.22	0,96780	0,73560	28,96	10,000	32.81
0,06895	0,07031	**1**	0,06805	0,05171	2,03600	0,70310	2,30700
1,01330	1,03320	14,7	**1**	0,76000	29,92	10,33	33,90
1,33320	1,35950	19,34	1,31580	**1**	39,37	10,60	44,60
0,03386	0,03453	0,49120	0,03342	0,02540	**1**	0,34540	1,13300
0,09806	0,10000	1,42200	0,09678	0,07355	2,89600	**1**	3,28100
0,02989	0,03048	0,433550	0,02950	0,02242	0,88270	0,30480	**1**

Conversion Table of Speed

m/s	**km/h**	**kn**	**ft/s**	**mile/h**
1	3,6000	1,9440	3,2810	2,2370
0,2778	**1**	0,5400	0,9113	0,6214
0,5144	1,8520	**1**	1,6880	1,1510
0,3048	1,0970	0,5925	**1**	0,6818
0,4470	1,6090	0,8690	1,4670	**1**

S.B.P. = Standard Barometric Pressure

Conversion Table of Length

cm	meter	inch	foot	yard	mile	km	knot
1	0,01000	0,39371	0,03281	0,01094	**1**	1,60931	0,86842
100	**1**	39,371	3,28081	1,09363	0,62138	**1**	0,53962
2,53995	0,02540	**1**	0,8333	0,02778	1,15151	1,85315	**1**
30,4794	0,30479	12	**1**	0,33333	---	---	---
91,4383	0,91438	36	3	**1**	---	---	---

LENGTH

Symbol	When you Know	Multiply	To Find	Symbol
in	inches	2,54	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0,9	meters	m
mi	miles	0,04	kilometers	km
mm	millimeters	0,04	inches	in
cm	centimeters	0,4	inches	in
m	meters	3,3	feet	ft
m	meters	1,1	yards	yd
km	kilometers	0,6	miles	mi

LENGTH

Nautical Miles	Kilometers	Kilometers	Nautical Miles
1	1,8532	1	0,5396
2	3,7064	2	1,0792
3	5,5596	3	1,6188
4	7,4128	4	2,1584
5	9,2660	5	2,6980
6	11,1190	6	3,2375
7	12,9720	7	3,7771
8	14,8250	8	4,3167
9	16,7880	9	4,8563
10	18,5320	10	5,3959
20	37,064	20	10,792
30	55,596	30	16,188
40	74,128	40	21,584
50	92,660	50	26,980
60	111,190	60	32,375
70	129,720	70	37,771
80	148,250	80	43,167
90	167,880	90	48,563

AREA

Symbol	When you Know	Multiply By	To Find	Symbol
in^2	square inches	6,5	square centimeters	cm^2
ft^2	square feet	0,09	square meters	m^2
yd^2	square yards	0,8	square meters	m^2
mi^2	square miles	2,6	square kilometers	km^2
	acre	0,4	hectares (10.000 m^2)	ha
cm^2	square centimeters	0,16	square inches	in^2
m^2	square meters	1,2	square yards	yd^2
km^2	square kilometers	0,4	square miles	mi^2
ha	hectares (10.000 m^2)	2,5	acre	

Conversion Table of Square Measure

m^2	in^2	ft^2	yd^2	acre	$mile^2$	hectare	km^2
1	1550.05	10,7637	1,19603	**1**	0,00156	0,40467	0,00405
$0,0^3645$	**1**	0,00694	$0,0^3772$	640	**1**	258,989	2,58989
0,09290	144	**1**	0,11111	2,47114	0,00386	**1**	0,01000
0,83609	1296	9	**1**	247,114	0,38612	100,000	**1**

* $0,0^3645$ means 0,000645

MASS (WEIGHT)

Symbol	When you Know	Multiply By	To Find	Symbol
oz	ounces	28	grams	g
lb	pounds	0,45	kilograms	kg
	short tons	0,9	tonnes	t
	(2000 lbs.)			
	long tons	1,01	tonnes	t
	(2240 lbs.)			
g	grams	0,035	ounce	oz.
kg	kilograms	2,2	pounds	lb
t	tonnes	1,1	short tons	
	(1000 kg)			
t	tonnes	0,98	long tons	
	(1000 kg)			

* $0,0^35787$ means 0,0005787

Cubic Measure				Liquid			
m^2	in^2	ft^2	yd^3	English gallon	American gallon	in^3	liter
1	61023,4	35,3137	1,30801	**1**	1,20100	277,393	4,54596
$0,0^4164$	**1**	$0,0^3579$	$0,0^4214$	0,8327	**1**	231	3,78543
0,02831	1728	**1**	0,03704	0,00361	0,00433	**1**	0,01639
0,76450	46656	27	**1**	0,22022	0,26419	61,0128	**1**

VOLUME

Symbol	When you Know	Multiply By	To Find	Symbol
tsp	teaspoons	5	millimeters	ml
tbsp.	tablespoons	15	millimeters	ml
fl oz.	fluid ounces	30	millimeters	ml
c	cups	0,24	liters	l
pt.	pints	0,47	liters	l
qt	quarts	0,95	liters	l
gal.	gallon (U.S.)	3,8	liters	l
gal.	gallona (Imp)	4,5	liters	l
ft^3	cubic feet	0,028	cubic meters	m^3
yd^3	cubic yards	0,76	cubic meters	m^3
ml	milimeters	0,03	fluid ounces	fl. oz.
l	liters	2,1	pints	pt.
l	liters	1,06	quarts	qt
l	liters	0,26	gallons (U.S.)	gal.
l	liters	0,22	gallons (Imp)	gal.
m^3	cubic meters	35	cubic feet	ft^3
m^3	cubic meters	1,3	cubic yards	yd^3

Conversion Table of Density

g/cm^3	lb/in^3	lb/ft^3	English t/yd^3	English lb/gall	American lb/gall
1	0,03613	62,43	0,7525	10,02	8,345
27,68	**1**	1728	20,83	277,4	231
0,01602	$0,0^35787$	**1**	0,01205	0,1605	0,1337
1,329	0,4801	82,96	**1**	13,32	11,09
0,0998	0,003605	6,229	0,7508	**1**	1,201
0,1198	0,004329	7,481	0,09017	0,8327	**1**

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