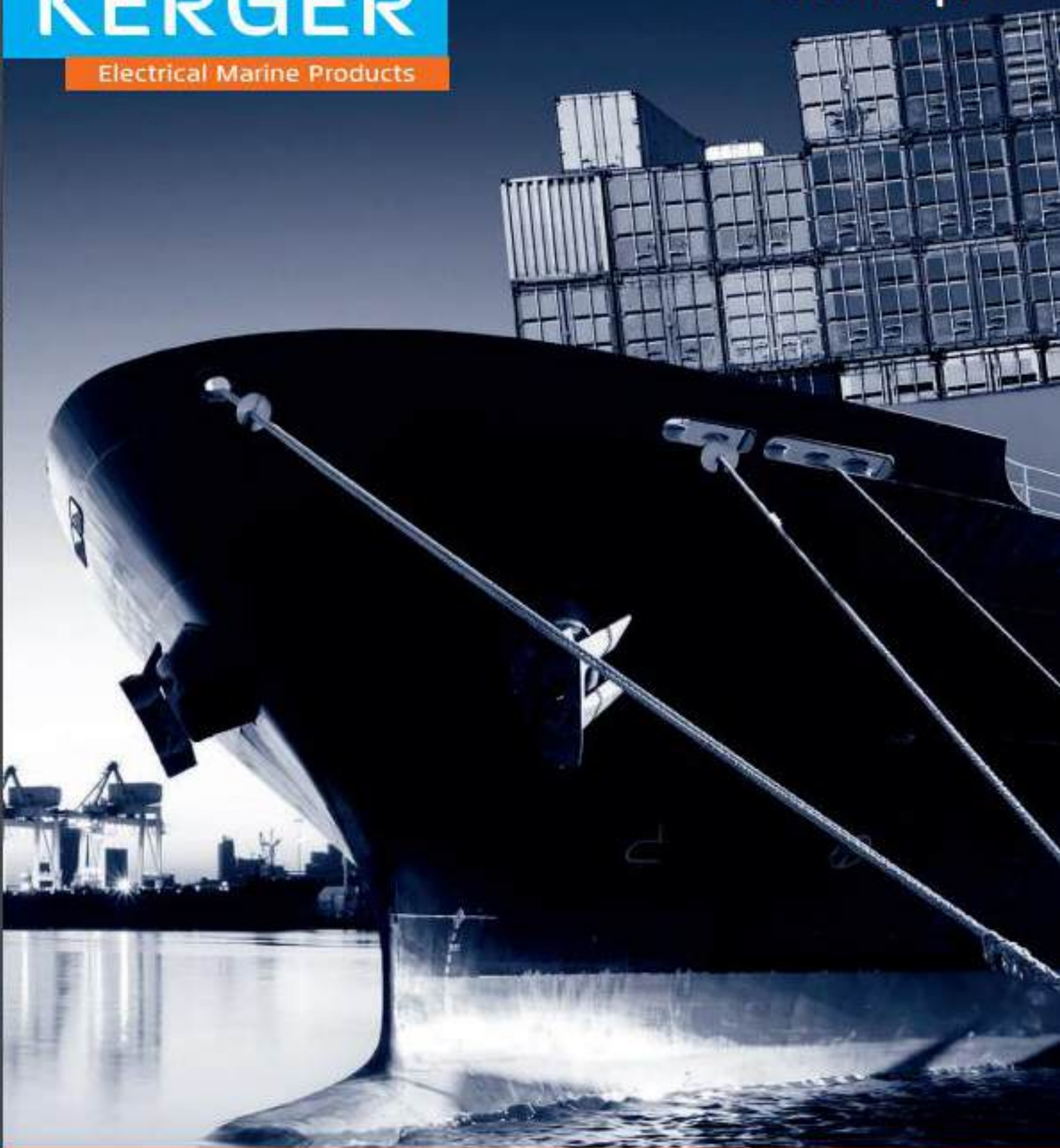


KERGER

Electrical Marine Products

Catalogue



Your reliable partner

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Introduction

As Kerger's managing director, I proudly present you our catalogue while taking the opportunity to tell you a little bit more about our company.

Over the last century, Kerger has built a solid foundation of expertise and experience in electrotechnical marine products. We uphold the values our company stands for, top level quality and client oriented services. In order to make good on that promise, we pro-actively follow technological developments. This allows us to supply our customers with top range products. At the same time, we strongly believe in personal contact with both our clients and suppliers. By knowing as well our clients situation and their requirements as our manufacturers, we can provide time saving services and custom made solutions. This allows our clients to keep a focus on their own expertise at all times.

The products you'll find in this catalogue are frequently ordered and delivered from stock. Furthermore, our worldwide network and contacts allow us to quickly supply high-end electrotechnical parts also when they are hard to come by. In accordance with our clients we always aim for the best and most cost effective solution. When it comes to electrotechnical marine products, we can provide anything. Would you like to know more? Please feel free to contact us. We will gladly assist you.



Kerger, your reliable partner



Left Mr. Leendert Kaptein. Right standing Mr. Jan Verwater. Sitting Mr. Jan Kerger.

KERGER

Electrical Marine Products

Our history

In 1919 Kerger was founded as a family business by 25 year old Jan Kerger. His father, Kees Kerger provided the investment capital to facilitate the start of Kerger & Co N.V. Marine Electrical Engineers. The company employed 12 people, most of whom were technicians, and was located at the West Zeedijk in Rotterdam.

In 1950 Mr Kaptein Sr. started his career at Kerger as an administrative assistant. The company focused on the installation and repairment of electrotechnical parts in the shipping industry. It distinguished itself by building strong customer relations, an aspect which would develop into a genuine Kerger trademark. As the company developed and grew, the decision was made to concentrate on sale and whole sale.

In 1959, Mr Kaptein was promoted to director, giving him decision-making power. The company grew steadily. Mr Kerger appointed Leenderik Kaptein and Jan Verwater as his successors upon his retirement. The company continued to grow. The customer base had a more international character now. In 1980 Kerger opened a branch office in Houston, Texas.

Today's managing director, Evert Kaptein, knows every aspect of both the market and the company; he grew up helping his father prepare orders during the weekends and holidays from school. He is proud of the company, its strong traditions and expertise. While Kerger modernized business operations, technology and means of transportation over the last century, its mission of going the extra mile to facilitate every client is as distinctive now as it was one hundred years ago. "Kerger is ready for its new century!"

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LAMPS

Lamps with B22 base for general lighting



Cat.No.	Volt	Watt	Diam.	Length	
100104	110	40	60	108	clear
100106	110	60	60	108	clear
100110	110	100	60	108	
100126	220	60	60	108	
100130	220	100	60	108	clear
100202	110	25	60	106	
100204	110	40	60	106	frosted
100206	110	60	60	106	frosted
100208	110	75	60	106	
100214	110	200	80	165	
100222	220	25	60	106	
100228	220	75	60	106	frosted
100230	220	100	60	106	frosted
100234	220	200	80	155	
100504	110	150	65	120	
100512	125	40	55	106	
100514	125	60	55	106	
100516	130	75	60	106	
100540	230	75	60	108	clear
100542	230	100	55	106	frosted, Philips
100544	230	150	65	122	
102004	12	25	50	106	
102006	12	40	60	106	
102012	24	15	60	106	
102017	24	40	60	106	
102018	24	60	60	106	Philips
102019	24	60	60	106	frosted
102021	24	100	60	106	
102024	42	25	65	106	
102029	42	60	60	106	

LAMPS

Lamps with E27 base for general lighting



Cat.No.	Volt	Watt	Diam.	Length	
100604	130	25	55	108	
100618	130	300	90	183	
100242	130	25	60	108	frosted
100244	130	40	60	108	
100254	130	200	80	170	
100262	220	25	60	108	
102052	12	25	60	108	
102054	12	40	60	108	
102056	12	60	60	108	
102063	24	25	60	108	
102068	24	100	60	108	Philips
102069	24	100	60	108	frosted
102076	42	40	60	108	Philips
102077	42	40	60	108	
102079	42	60	60	108	

LAMPS

Reinforced construction lamps with B22 base



Cat.No.	Volt	Watt	Diam.	Length
100706	120	60	60	106
100707	110	75	55	96
100708	110	100	70	124
100710	110	150	80	144
100716	220	25	60	106
100718	220	40	60	106
100722	220	75	60	106
100724	230	100	65	116

Reinforced construction lamps with E27 base



Cat.No.	Volt	Watt	Diam.	Length
100744	130	40	60	108
100748	110	75	60	104
100758	230	25	60	108
100760	230	40	60	108
100762	230	60	60	108
100764	220	75	60	104
100766	230	100	65	118

Lamps with E40 base



Cat.No.	Volt	Watt	Diam.	Length
100184	130	300	88	180
100186	130	500	88	180
100190	220	300	88	180
100192	220	500	88	180

LAMPS

Coloured lamps with E27 base, standard shape



Cat.No.	Volt	Watt	Diam.	Length	Colour
102230	130	40	60	108	yellow
102231	130	40	60	108	orange
102425	220	25	60	108	yellow
102426	220	25	60	108	orange
102428	220	25	60	108	green
102429	220	25	60	108	blue
102246	220	40	60	108	yellow
102248	220	40	60	108	orange
102254	220	40	60	108	blue

LED Party lamps

Cat.No.	Volt		Watt	Lumen	Base	D mm	L mm	Colour
130460	230	AC	1	7	E27	45	72	Red
130464	230	AC	1	7	E27	45	72	Green
130468	230	AC	1	7	E27	45	72	Yellow
130472	230	AC	1	7	E27	45	72	Blue



LAMPS

Bowl reflector lamps



Cat.No.	Volt	Watt	Diam.	Length	Base
102319	220	60	60	108	E27

Reflector lamps



Cat.No.	Volt	Watt	Diam.	Length	Base	
102342	220	25	50	84	E14	
102343	230	30	39	67	E14	
102354	220	25	64	104	E27	
102358	220	60	64	104	E27	
102362	220	100	95	136	E27	
102366	220	40	64	104	E27	yellow
102368	220	40	64	104	E27	green



Candle lamps



Cat.No.	Volt	Watt	Diam.	Length	Base
102392	130	25	35	99	E14
102398	220	15	35	99	E14
102400	220	25	35	99	E14
102402	220	40	35	99	E14
102408	220	40	35	91	B22

Lustre (spherical) lamps with E14 base



Cat.No.	Volt	Watt	Diam.	Length
102502	24	25	45	79
102508	130	25	45	79
102510	130	40	45	72
102511	220	15	45	79
102512	220	25	45	79

LAMPS

Lustre (spherical) lamps with B22 base



Cat.No.	Volt	Watt	Diam.	Length
102522	110	25	45	77
102524	110	40	45	77
102532	220	15	45	77
102534	220	25	45	77
102536	220	40	45	77

Lustre (spherical) lamps with E27 base



Cat.No.	Volt	Watt	Diam.	Length
102542	24	15	45	79
102544	24	25	45	79
102546	24	40	45	72
102548	130	25	45	79
102550	130	40	45	75
102554	220	15	45	79
102556	220	25	45	79
102558	220	40	45	79

Pygmy lamps with E14 base



Cat.No.	Volt	Watt	Diam.	Length
102602	24	15	28	66
102604	24	25	25	66
102606	24	40	25	71
102610	120	15	22	60
102612	120	25	25	58
102615	220	15	28	64
102619	220	25	28	64

Pygmy lamps with B15 base



Cat.No.	Volt	Watt	Diam.	Length
102622	24	15	28	64
102624	24	25	28	56
102628	110	15	25	64
102631	220	15	28	64
102636	220	25	28	64

LAMPS

Pygmy lamps with B22 base



Cat.No.	Volt	Watt	Diam.	Length	
102642	24	15	30	61	
102644	24	25	30	61	
102652	110	15	28	62	
102654	110	25	25	61	
102658	130	15	28	60	
102663	220	15	28	64	
102664	220	15	28	62	
102666	220	25	28	62	
102670	280	15	28	62	Philips

Pygmy lamps with E27 base



Cat.No.	Volt	Watt	Diam.	Length
102678	130	15	30	64
102681	220	15	28	64
102684	220	25	28	60

Tubular lamps with E14 base



Cat.No.	Volt	Watt	Diam.	Length	
102706	130	25	25	66	
102710	130	25	30	90	
102714	220	25	25	66	
102715	220	25	30	90	
102716	220	25	25	85	
102718	220	40	29	85	
102719	220	40	30	90	
102720	220	40	25	68	for rotating beacon

Tubular lamps with B15 base



Cat.No.	Volt	Watt	Diam.	Length	
102738	110	40	25	70	for compass

LAMPS

Tubular lamps with B22 base



Cat.No.	Volt	Watt	Diam.	Length
102762	110	15	30	60
102774	130	40	30	90
102780	220	25	25	60
102783	220	25	30	90
102787	220	40	30	90

Tubular lamps with E27 base



Cat.No.	Volt	Watt	Diam.	Length
102790	130	25	30	90
102792	130	40	30	90
102795	220	25	30	90
102799	220	40	30	90

Oven lamps 300 degrees Celsius



Cat.No.	Volt	Watt	Diam.	Length	Base
102902	220	15	22	49	E14



102910	220	60	60	108	E27
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Pressed-glass lamps Par 38 with E27 base



Cat.No.	Volt	Watt	Diam.	Length	spot
102932	24	120	121	136	

LAMPS

Sealed beam lamps with end-prong base



Cat.No.	Volt	Watt	Diam.	Length	Type
102968	24	75/75	178	138	3 lug
102972	120	300	178	134	flood
102982	220	300	178	134	flood



Japanese reflector lamps with E26 base, RF (flood)



Cat.No.	Volt	Watt	Diam.	Length	Type
103016	110	180	110	146	outdoor
103019	110	270	120	162	indoor
103026	220	180	110	146	outdoor
103028	220	270	120	162	indoor

Japanese reflector lamps with E39 base, RF (flood)



Cat.No.	Volt	Watt	Diam.	Length	Type
103042	110	270	130	220	outdoor
103044	110	450	150	240	outdoor
103046	110	900	180	315	outdoor
103052	220	270	130	220	outdoor
103054	220	450	150	240	outdoor
103056	220	900	180	315	outdoor

Low voltage lamps with BA15d and BA15s base



Cat.No.	Volt	Watt	Diam.	Length	Base
103204	6	5	18	34	BA15d
103210	12	3	18	35	BA15s
103214	12	5	18	35	BA15d
103216	12	10	19	35	BA15d
103217	12	10	18	35	BA15s
103218	12	15	18	35	BA15d
103220	12	25	18	35	BA15d
103228	12	45	35	60	BA15s *
103234	24	5	19	34	BA15d
103238	24	5	18	33	BA15s
103240	24	10	18	33	BA15d
103241	24	10	18	35	BA15s
103242	24	15	18	35	BA15d
103244	24	25	18	38	BA15d
103252	24	45	35	59	BA15s *

* for rotating beacon

LAMPS

Low voltage lamps with B22 base



Cat.No.	Volt	Watt	Diam.	Length
103276	24	5	23	48
103282	24	15	40	62
103284	24	25	40	62

Pilot lamps for use in series with navigation lamps



Cat.No.	Ampere	Diam.	Length	Base
103306	0.18-0.31	16	54	E14
103308	0.28-0.45	16	54	E14
103310	0.40-0.65	16	54	E14
103312	0.58-0.95	16	54	E14
103314	0.85-1.40	16	54	E14
103316	1.25-2.00	16	54	E14
103318	1.80-3.00	16	54	E14
103334	0.13-0.22	27	54	B22
103336	0.18-0.31	27	54	B22
103338	0.28-0.45	27	54	B22
103340	0.40-0.65	27	54	B22
103342	0.58-0.95	27	54	B22
103344	0.85-1.40	27	54	B22
103346	1.25-2.00	27	54	B22
103348	1.80-3.00	27	54	B22
103364	0.28-0.45	28	53	E27

LAMPS

Navigation lamps with BAY15d base



Cat.No.	Volt	Cd	Diam.	Length	
103390	12	10	25	68	
103402	12	12	25	68	approved COLREGS 72
103405	12	40	25	68	
103404	12	40	25	68	approved COLREGS 72
103408	24	12	25	68	approved COLREGS 72
103410	24	40	25	68	approved COLREGS 72
103411	24	40	25	68	
103392	28	40	25	68	
103414	110	40	25	69	
103418	220	40	25	69	

Navigation lamps with B22 base



Cat.No.	Volt	Cd	Diam.	Length	
103424	24	26	39	100	
103428	24	65	45	128	
103504	24	65	45	128	cheap brand
103434	110	26	39	100	
103506	110	26	39	100	cheap brand
103438	110	65	45	128	
103508	110	65	45	128	cheap brand
103442	220	13	39	100	
103509	220	13	39	100	cheap brand
103444	220	26	39	100	
103512	220	26	39	100	cheap brand
103446	220	35	38	110	
103450	220	60	39	108	Italian type
103452	220	65	45	128	

Navigation lamps with E27 base



Cat.No.	Volt	Cd	Diam.	Length	
103518	24	26	39	100	cheap brand
103468	110	26	39	100	
103472	110	65	45	128	
103476	220	26	39	100	
103480	220	65	45	128	

LAMPS

Navigation lamps with P28s base



Cat.No.	Volt	Watt	Cd	Diam.	Length	
103492	24	40	50	39	108	approved COLREGS 72
103496	115	60	50	39	108	approved COLREGS 72
103498	230	65	50	39	108	approved COLREGS 72

Not approved type

Cat.No.	Volt	Watt	Cd	Diam.	Length
103368	24	40	50	46	108
103494	48	65	60	39	108
103370	110	65	50	46	108
103372	220	65	50	46	108

Wedge base lamps



Cat.No.	Volt	Watt/mA	Diam.	Length	Base
104102	6/7	30mA	5.5	18	T5
104106	12/15	30mA	5.5	18	T5
104110	24	1W	5	20	T5
104113	24	80mA	5	20	T5
104120	24	2W	10	24	T10

LAMPS

Indicator lamps with BA5s base



Cat.No.	Volt	Watt/mA	Diam.	Length
104140	14	80mA	5.7	16

Indicator lamps with BA7s base



Cat.No.	Volt	Watt/mA	Diam.	Length
104204	6	0.6W	6	19
104208	6	40mA	6	19
104212	6	2W	7	23
104218	12	50mA	7	23
104222	12	1.2W	7	23
104226	12	2W	7	20
104232	24	50mA	7	20
104234	24	80mA	7	20
104236	24	3W	7	20
104242	30	2W	7	23
104246	30	3W	7	23
104252	36	50mA	7	23
104258	48	100mA	7	20
104262	60	20mA	7	23

Indicator lamps with MT base



Cat.No.	Volt	mA	Diam.	Length
104282	28	40	6	18

Indicator lamps H shape for Terasaki equipment



Cat.No.	Volt	Type	Diam.	Length
104292	28	OL4089	6	20

Indicator lamps with BA9s base



Cat.No.	Volt	Watt/mA	Diam.	Length
104304	2	60mA	10	28
104308	2.5	300mA	10	28
104314	4	300mA	9	28
104320	6	100mA	9	23
104321	6	1W	9	23
104322	6	200mA	9	23
104324	6	3W	9	26
104330	6	180mA	10	28

LAMPS

Indicator lamps with BA9s base (continuation)

	Cat.No.	Volt	Watt/mA	Diam.	Length	
	104332	6	2W	10	28	
	104336	6.3	1.2W	9	23	
	104328	6.3	150mA	10	28	
	104338	6.3	250mA	10	28	
	104340	7	300mA	10	28	
	104342	12	50mA	9	23	
	104346	12	2W	10	23	
	104350	12	2W	10	28	
	104354	12	3W	9	22	
	104357	14	80mA	10	28	
	104360	18	110mA	9	28	
	104366	24	50mA	9	22	
	104367	24	50mA	10	28	
	104370	24	2W	9	22	
	104374	24	2W	10	28	
	104378	24	3W	9	22	
	104380	24	3W	10	28	
	104381	24	5W	9	23	
	104382	26	1W	9	23	
	104383	28	60mA	9	23	
	104384	28	50mA	9	28	
	104387	30	1.2W	9	23	
	104388	30	40mA	11	24	round shape
	104390	30	2W	9	23	
	104392	30	2W	10	28	
	104394	30	3W	9	22	
	104398	30	3W	10	28	
	104404	36	2W	9	23	
	104408	36	2W	9	28	
	104412	48	40mA	9	23	
	104414	48	3W	10	28	
	104420	60	20mA	9	23	
	104424	60	30mA	10	28	
	104426	60	20mA	10	28	
	104428	60	3W	9	24	
	104440	130	20mA	9	22	
	104446	130	20mA	10	28	
	104456	220	3W	9	23	
	104458	220	3W	10	28	
	104461	220	5W	10	28	
	104453	240	2.4W	10	28	

LAMPS

Indicator lamps with BA15d base



Cat.No.	Volt	Watt	Diam.	Length
104504	6	2	16	35
104508	12	2	15	30
104512	24	2	13	30
104516	24	5	14	32
104520	30	5	16	35
104524	48	5	15	34
104528	60	5	16	35
104532	110	5	16	35
104536	160	5	16	35
104540	260	5	16	35
104544	6	4	16	52
104548	12	4	16	52
104552	24/30	3/5	16	54
104556	24	10	16	45
104560	30	5	16	54
104564	48	5	16	52
104568	60	10	16	54
104572	130	6	16	45
104576	110	10	16	54
104580	220	5/7	16	45
104584	220	10	16	45
104588	220	10	16	52
104589	220/260	5/7	16	54
104590	220/260	6/10	16	54
104591	220/260	10/15	16	54
104592	380	10	16	54

Indicator lamps with E5.5 base



Cat.No.	Volt	Watt/mA	Diam.	Length
104606	6	60mA	5	15
104610	6	200mA	5	15
104614	12	1.5W	6	16
104618	14	40mA	5	14
104622	14	80mA	5	14
104626	24	2W	5.5	17.5
104630	28	40mA	6	16

LAMPS

Indicator lamps with E10 base

	Cat.No.	Volt	Watt/mA	Diam.	Length	
	104636	4	2W	10	28	7121D
	104642	6	50mA	10	23	
	104643	6	1W	9	23	
	104644	6	3W	10	23	
	104646	6	1.8W	10	28	
	104648	6.3	150mA	9	23	
	104649	8	100mA	10	28	
	104651	10	50mA	10	23	
	104650	12	3W	10	28	
	104654	18	1.8W	10	28	
	104662	24	3W	9	22	
	104664	24	3W	11	24	
	104666	24	50mA	10	28	
	104667	24	2W	9	23	
	104668	24	2W	10	28	
	104670	24	3W	10	28	round shape
	104671	28	2W	10	28	
	104672	28	100mA	10	28	
	104673	30	1.2W	9	23	
	104674	30	3W	10	28	
	104675	30	2W	9	23	
	104676	30	1.2W	10	28	
	104677	30	2W	10	28	
	104678	36	2W	9	23	
	104682	48	3W	10	28	
	104686	60	3W	10	28	
	104692	110	3W	10	28	
	104698	220	3W	10	28	

Indicator lamps with E12 base

	Cat.No.	Volt	Watt/mA	Diam.	Length
	104703	6	3W	16	45
	104706	12	3W	15	45
	104710	18	0.11A	13	34
	104714	24	0.11A	13	34
	104718	24	0.11A	16	45
	104720	28	0.11A	13	34
	104722	30	2W	13	34
	104723	30	5W	16	45

LAMPS

Indicator lamps with E12 base (continuation)



Cat.No.	Volt	Watt	Diam.	Length
104724	48	5	16	45
104726	60	2	16	43
104732	130	6	13	33
104736	110/140	6/10	16	45
104740	130	20	19	50
104746	220	6	13	33
104750	220	10	17	48

Indicator lamps with E14 base



Cat.No.	Volt	Watt	Diam.	Length
104806	6	2	16	35
104810	12	2	14	30
104816	24	3	14	29
104820	24/30	3/5	16	32
104824	24	5	14	30
104830	30	5	16	35
104836	48	5	14	33
104842	60	5	14	30
104848	110	5	16	35
104854	260	5	16	35
104860	6	4	17	52
104864	12	4	16	52
104870	24/30	3/5	16	52
104874	24	10	16	54
104880	24/30	6/10	16	45
104883	24	15	16	54
104886	48	6	16	52
104889	48	10	16	54
104892	60	6	16	52
104898	110	5	16	45
104904	110/130	6/10	16	52
104908	220/260	5/7	16	54
104910	220/260	6/10	16	44
104914	220/260	6/10	16	52
104917	230	15	16	52
104920	380	10	16	54



LAMPS

Indicator lamps with B22 base Lumen lamps



Cat.No.	Volt	Watt / Lm	Diam.	Length
104952	130	± 7W 10Lm	27	60
104958	220	± 7W 10Lm	22	60

Indicator lamps with Midget flanged-base



Cat.No.	Volt	mA	Diam.	Length	
105110	28	24	3.9	8.9	
105122	28	25	4.5	12	
105140	6	100	6	15	
105144	6	200	6	15	
105150	12	40	6	15	
105162	12	100	6	15	
105168	14	80	6	15	
105180	18	40	6	15	
105192	28	24	6	15	
105198	28	40	6	15	327/387
105226	36	30	6	15	
105242	48	25	6	15	
105244	48	30	6	15	
105256	60	20	6	15	

Indicator lamps with Midget grooved-base



Cat.No.	Volt	mA	Diam.	Length	
105266	1.35	60	6	15	
105272	6	200	6	15	
105278	14	80	6	15	
105284	28	40	6	15	388
105288	36	30	6	15	
105296	60	20	6	15	

Indicator lamps with Bi-pin base



Cat.No.	Volt	mA	Diam.	Length	
105309	24	40	5	13	
105312	28	24	3.8	9	
105336	28	24	6	15	
105342	28	40	6	15	
105349	28	40	6	16	relampable type
105356	32	33	6	15	
105360	32	33	6	16	relampable type

LAMPS

Neon indicator lamps

	Cat.No.	Volt	Base	Diam.	Length
	105428	110	BA9s	10	28
	105430	220	BA9s	10	28
	105432	380	BA9s	9	26
	105438	110	E10	10	28
	105440	220	E10	10	28
	105442	380	E10	10	28
	105446	110	E14	13	29
	105448	110	E14	16	54
	105450	220	E14	14	30
	105452	220	E14	16	54
	105454	380	E14	12	30
	105456	380	E14	14	52
	105460	220	B15d	16	31
	105462	220	B15d	16	52
	105466	220	B15s	16	52
	105472	110	B22	27	60
	105474	220	B22	28	61
	105480	220	E27	26	56

Telephone indicator lamps with T4.5 base

	Cat.No.	Volt	mA	Diam.	Length
	105506	6	40	4.5	16
	105518	12	40	4.5	16
	105530	24	20	4.5	16
	105536	24	40	4.5	16
	105542	24	50	4.5	16
	105550	30	20	4.5	16
	105554	30	40	4.5	16

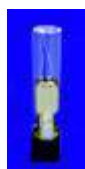
LAMPS

Telephone indicator lamps with T4.6 base



Cat.No.	Volt	mA	Diam.	Length
105606	6	40	4.6	22
105618	12	20	4.6	22
105622	12	40	4.6	22
105634	24	20	4.6	22
105638	24	40	4.6	22
105642	24	50	4.6	22
105645	28	40	4.6	22
105654	30	20	4.6	22
105658	30	40	4.6	22
105670	36	20	4.6	22
105682	48	20	4.6	22
105694	60	20	4.6	22

Telephone indicator lamps with PSB base



Cat.No.	Volt	mA	Diam.	Length
105732	28	40	7.2	28
105756	120	25	7.2	28

Telephone indicator lamps with T5.5 base



Cat.No.	Volt	mA	Diam.	Length	
105820	24	20	5.5	22	T5.5K base
105824	24	50	5.5	22	T5.5K base
105830	28	50	5.5	22	T5.5K base
105832	30	20	5.5	22	T5.5K base
105834	30	40	5.5	22	T5.5K base
105842	6	40	5.5	30	
105848	6	200	5.5	30	
105854	12	20	5.5	30	
105858	12	40	5.5	30	
105862	12	100	5.5	30	
105868	24	20	5.5	30	
105870	24	25	5.5	30	
105872	24	40	5.5	30	
105876	24	50	5.5	30	
105880	24	80	5.5	30	
105883	28	20	5.5	30	
105886	28	40	5.5	30	
105890	28	50	5.5	30	
105896	30	20	5.5	30	

LAMPS

Telephone indicator lamps with T5.5 base (continuation)

	Cat.No.	Volt	mA	Diam.	Length
	105900	30	40	5.5	30
	105904	30	50	5.5	30
	105908	36	20	5.5	30
	105914	36	40	5.5	30
	105920	48	20	5.5	30
	105924	48	25	5.5	30
	105928	48	40	5.5	30
	105934	60	20	5.5	30
	105938	60	40	5.5	30
	105952	220	neon	5.5	30

Telephone indicator lamps with T6.8 base

	Cat.No.	Volt	mA	Diam.	Length
	106006	6	20	6.8	45
	106010	6	40	6.8	45
	106008	6	50	6.8	45
	106014	6	200	6.8	45
	106016	12	20	6.8	45
	106020	12	50	6.8	45
	106026	12	100	6.8	45
	106032	24	20	6.8	45
	106034	24	25	6.8	45
	106038	24	40	6.8	45
	106042	24	50	6.8	45
	106046	24	100	6.8	45
	106052	28	25	6.8	45
	106056	28	45	6.8	45
	106062	30	20	6.8	45
	106066	30	40	6.8	45
	106070	30	50	6.8	45
	106076	36	20	6.8	45
	106080	36	40	6.8	45
	106082	36	50	6.8	45
	106088	48	20	6.8	45
	106094	60	20	6.8	45
106098	60	40	6.8	45	
106110	220	neon	6.8	45	

NH type indicator lamps for Terasaki

	Cat.No.	Volt	mA	Diam.	Length
	106150	28	22	4.85	21

LAMPS

Lamp pullers



Cat.No.	Description	
108996	Puller for (telephone) lamps	5.5-6.8 mm diam.
108994	Puller for lamps	14-16 mm diam.
108998	Lamp puller, set of 9 pieces	3-13 mm diam.

Festoon lamps



Cat.No.	Volt	Watt	Diam.	Length	Base
106214	12	3	8	29	S7
106218	12	3	8	38	S7
106224	12	5	11	39	S8.5
106230	24	1.2	6	31	S5.5
106238	24	3	8	31	S7
106240	24	3	7	36	S7
106244	24	3	6	39	S7
106252	24	5	11	44	S8.5
106256	24	5	11	39	S8.5
106260	24	10	11	44	S8.5
106264	24	15	14	42	S8.5
106268	24	20	10	45	S8.5
106274	26	1	6	24	S6
106277	28	2	6	24	S6
106282	48	5	10	42	S8.5
106290	60	3	14	43	S8.5

Compass and repeater lamps



1



2

Cat.No.	Volt	Watt	Diam.	Length	Base		Fig.
106714	24	3	18	35	E14		1
106738	45	8	16	43	E10	Sallog	2
106746	70	8	16	43	E10	Sallog	2

LAMPS

Top mirror 'Aldis' signalling lamps with P15d base



Cat.No.	Volt	Watt	Diam.	Length
108006	12	60	40	63
108008	24	60	40	63

Lamps for smoke detectors with P30d base



Cat.No.	Volt	Watt	Diam.	Length
108055	12	25	35	58

Projection lamps with P28s base



1



2

Cat.No.	Volt	Watt	Diam.	Length	Fig.	
108092	120	1000	39	140	1	black-top
108094	220	500	56	135	2	375C

LAMPS

Searchlight lamps with BA20d base



Cat.No.	Volt	Watt	Diam.	Length	
108138	24	100	48	75	top mirror

Searchlight lamps with top mirror and E40 base



Cat.No.	Volt	Watt	Diam.	Length	
108208	220	500	120	175	521B, kv
108214	220	1000	130	211	579B, kv

Searchlight lamps with side mirror with hole and E40 base



Cat.No.	Volt	Watt	Diam.	Length	
108234	115	1000	110	175	
108240	220	1000	125	175	

Searchlight lamps with side mirror with hole and G19/54 base



Cat.No.	Volt	Watt	Diam.	Length	
108270	115	2000	150	260	
108274	115	3000	200	331	
108278	220	2000	150	260	
108282	220	3000	200	331	

LAMPS

Halogen lamps for general lighting

	Cat.No.	Volt	Watt	Diam.	Length	Base	
	108416	24/28	200	11	118	R7s	
	108420	30	375	11	78	R7s	
	108425	42	300	12	118	R7s	
	108427	42	500	11	118	R7s	
	108432	110/130	300	11	78	R7s	
	108434	110/120	300	11	118	R7s	
	108436	110/120	500	11	118	R7s	
	108440	110/120	1000	11	192	R7s	
	108444	110/120	1500	11	254	R7s	
	108445	240	35	51	53	GU10	36°
	108446	230	50	64	88	E27	PAR20
	108449	240	50	51	53	GU10	36°
	108450	230	75	68	63	GU10	25°
	108448	230	75	15.5	86	B15d	
	108451	230	80	11	78	R7s	
	108452	220	100	11	78	R7s	
	108454	220	150	11	78	R7s	reinforced
	108455	230	160	11	118	R7s	
	108457	230	230	11	118	R7s	
	108458	220	250	11	78	R7s	
	108460	230	300	8	118	R7s	reinforced
	108463	230	400	11	118	R7s	
	108464	230	500	11	118	R7s	reinforced
	108466	220	500	11	189	R7s	
	108472	220	750	11	189	R7s	
	108477	230	1000	11	189	R7s	reinforced
	108478	240	1000	11	189	R7s	
	108480	220	1500	11	254	R7s	
	108484	220	2000	11	332	R7s	
	108488	220	2000	11	335	FA4	

LAMPS

Double envelope (lode) halogen lamps



Cat.No.	Volt	Watt	Diam.	Length	Base
108502	125	300	41	197	E40
108504	110	500	38	215	E40
108508	120	1000	38	255	E40
108511	230	150	31	105	E27
108514	220	250	31	105	E27
108526	220	500	38	215	E40
108530	220	1000	38	255	E40

Halogen lamps with E11 and E14 base



Cat.No.	Volt	Watt	Diam.	Length	Base
108550	110	100	12	70	E11x24
108554	110	150	14	70	E11x18
108560	110	500	14	93	E11x24
108584	220	250	14/17	85	E14x24
108572	220	500	14	93	E11x24

LAMPS

Low voltage halogen lamps

		Cat.No.	Volt	Watt	Diam.	Length	Base		Fig.
1		108596	12	5	9	31	BA9s		1
		108603	28	5	11	31	BA9s		1
		108620	12	20	38	41	B15d	32° GBF	2
		108622	12	50	15	35	B15s		3
		108624	12	50	15	43	B15s	for 110/220V rotating beacon cat.no. 242622-242648	3
2		108694	24	50	15	43	B15s	for 24V rotating beacon cat.no. 242604-242612	3
		108602	12	10	9	31	G4		4
		108604	12	20	9	31	G4		4
3		108606	12	35	9	31	G4		4
		108610	24	20	9	31	G4		4
		108712	12	50	11	44	G6.35		4
		108722	24	100	11	44	G6.35		4
		108724	24	150	11	44	G6.35		4
6		108680	24	60	18	42	GX6.35	SPS-10A for 'Aldis'	5
		108625	12	20	11	44	GY6.35		4
		108627	12	35	11	44	GY6.35		4
		108634	12	75	11	44	GY6.35		4
		108636	12	100	11	44	GY6.35		4
		108676	24	35	11	44	GY6.35		4
		108678	24	50	11	44	GY6.35		4
		108681	24	150	11	44	GY6.35		4
7		108682	24	250	11	44	GY6.35		4
		108660	12	55	9	67	P14.5s	H1	6
		108684	24	70	9	67	P14.5s	H1	6
		108670	6	55	11	42	PK22s	H3	7
8		108672	12	55	11	42	PK22s	H3	7
		108690	24	70	11	42	PK22s	H3	7
		108644	12	55	36	49	P36	Thorn 450 for air turbo lamp	8
		108626	12	20	35.3	41	GU4		9
9		108613	12	20	50	46	GU5.3	36° BAB	9
		108615	12	35	50	46	GU5.3	8° FRB	9
		108617	12	45	50	46	GU5.3	36° EXN	9
		108621	28	20	50	46	GU5.3	38° BAB	9
10		108736	24	250	50	45	GX6.35	EMM A1/258	10



4



5

LAMPS

Halogen lamps with P28s base



Cat.No.	Volt	Watt	Diam.	Length	Type
108764	220	500	22	125	6800C

Halogen lamps with GY9,5 base



Cat.No.	Volt	Watt	Diam.	Length
108770	120	600	24	64
108778	220	650	24	64

Halogen lamps with GX9,5 base



Cat.No.	Volt	Watt	Diam.	Length	Type
108790	230	650	22	110	T12
108798	220	1000	35	110	T11

Halogen lamps with G38 base



Cat.No.	Volt	Watt	Diam.	Length	Type
108812	110	2000	40	210	CP41
108816	220	2000	40	210	CP41
108822	120	3000	40	210	HX48
108828	240	3000	40	210	HX48

Halogen lamps with GY16 base



Cat.No.	Volt	Watt	Diam.	Length	Type
108850	110	2000	45	134	CP43
108858	220	2000	50	139	CP43

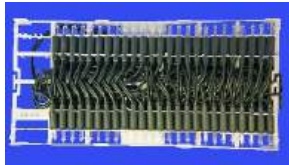
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Infra-red heating lamps with E27 base



Cat.No.	Volt	Watt	Diam.	Length
108908	130	250	125	185
108912	130	375	125	185
108916	220	250	125	185

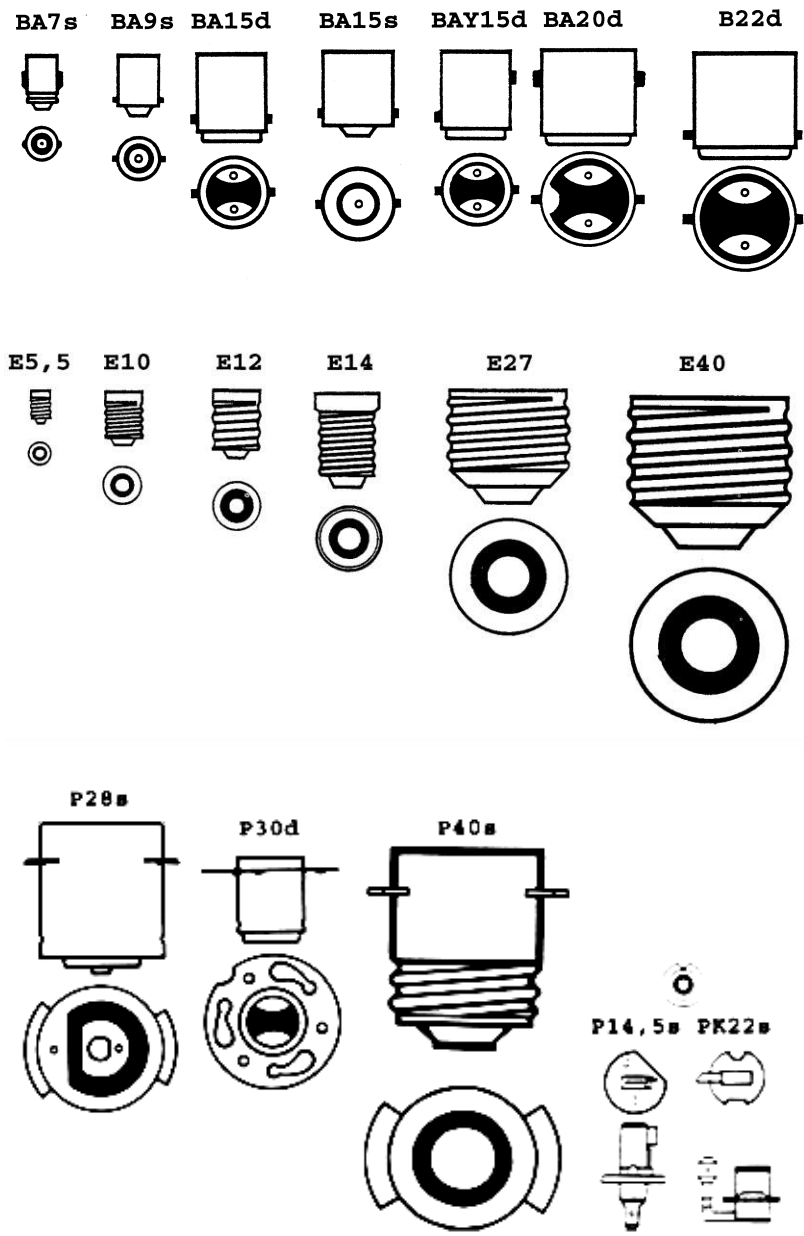
Christmas lightings



Cat.No.	Description	
108950	Christmas lighting	50 LEDS, 230V, warm white, length 7,5mtr for indoor use

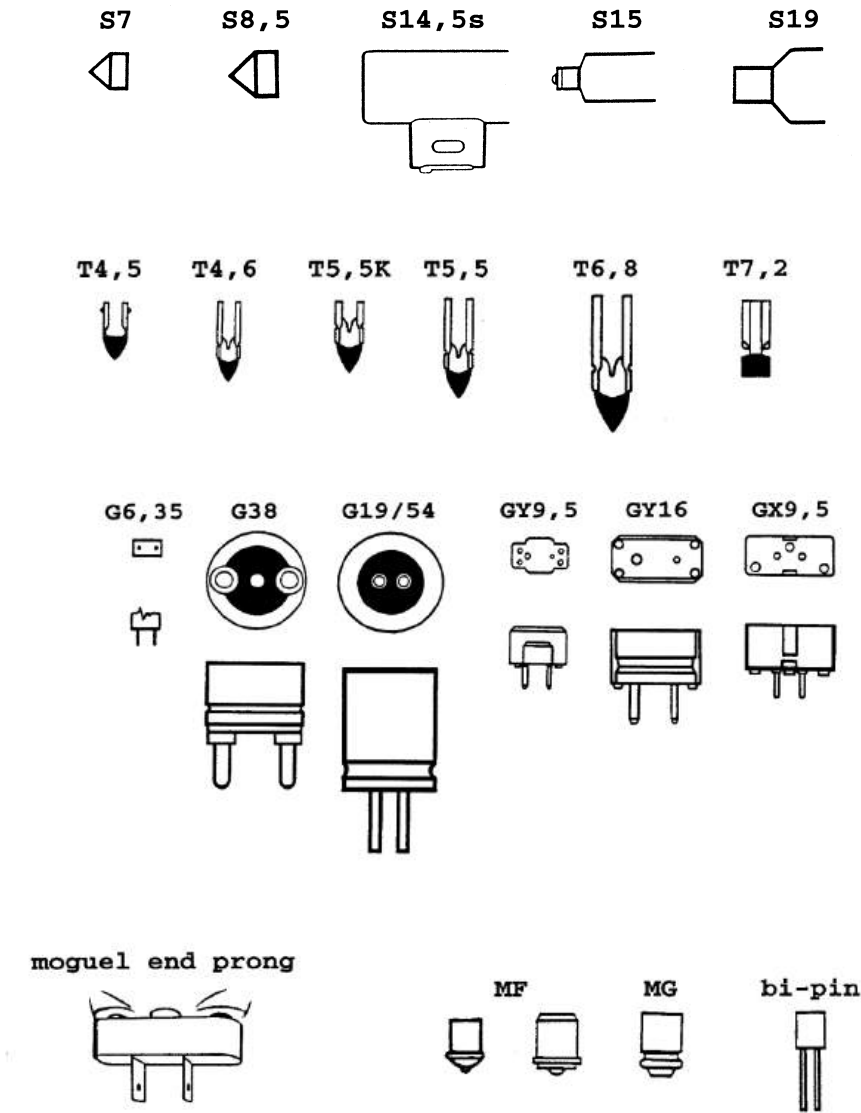
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Base designations



LAMPS

Base designations



FLUORESCENT LIGHTING LAMPS

Fluorescent lamps

	Cat.No.	Watt	Colour	Length excl. pins	Diam.	
	125106	4	white	136	16	
	125132	6	white	212	16	
	125158	8	white	288	16	
	125164	8	827	288	16	
	125170	8	830	288	16	
	125176	8	840	288	16	
	125202	10	white	329	26	
	125228	13	white	516	16	
	125231	13	830	516	16	
	125280	15	white	437	26	
	125286	15	827	437	26	
	125292	15	830	437	26	
	125294	15	840	437	26	
	125336	18	827	590	26	
	125342	18	830	590	26	
	125348	18	840	590	26	
	125352	18	865	590	26	
	125406	18	red	590	26	
	125408	20	white	590	32	
	125410	20	daylight	590	32	
	125380	20	daylight	580	32	Japanese
	125463	30	827	894	26	
	125465	30	830	894	26	
	125468	30	840	894	26	
	125502	36	827	1200	26	
	125508	36	830	1200	26	
	125514	36	840	1200	26	
	125518	36	865	1200	26	
	125534	36	red	1200	26	
	125540	40	white	1200	26	
	125544	40	daylight	1200	32	
	125546	40	white	590	38	for coldroom fixtures
	125584	58	827	1500	26	
	125587	58	830	1500	26	
	125590	58	840	1500	26	
	125592	58	865	1500	26	
	125604	60	white	1166	38	F48 T12 CW/HO

FLUORESCENT LIGHTING LAMPS

Fluorescent lamps, rapid start, colour white (33)



Cat.No.	Watt	Length excl. pins	Diam.	
125650	20	580	32	Japanese
125662	20	590	38	TLM RS
125710	40	1184	38	TLS cap R18s
125720	65	1500	38	TLM RS

Circline fluorescent lamps



Cat.No.	Watt	Colour daylight	Diam.	Lamp diam.
125806	20		29	205
125822	30		32	229

Single pin instant-start safety fluorescent lamps type TLX, colour white (33)



Cat.No.	Watt	Length	Diam.
125850	20	571	38

2D lamps



Cat.No.	Watt	Colour	Dimensions	
122304	16	827	140x140x27	2 pins
122307	16	827	140x140x27	4 pins
122312	28	827	205x205x35	4 pins
122317	38	827	205x205x35	4 pins

Light colour characteristics



Colour	Colour temp. K	Description
29	2900	warm white
32	3000	warm white
33	4100	(cool) white
34	3900	(cool) white
54	6250	daylight
827	2650	extra-warm white
830	3000	warm white
840	4000	extra white
865	6500	(cool) daylight
930	3000	warm white

FLUORESCENT LIGHTING LAMPS

UV lamps for sterilization purposes (germicidal)

	Cat.No.	Watt	Diam.	Length excl. pins	Base	
	125956	8	16	288	bi-pin	Clear
	125959	8	16	288	bi-pin	08 UV-A black light/blue
	125962	10	25	330	bi-pin	
	125968	15	25	437	bi-pin	
	125978	30	25	892	bi-pin	
	125985	36	26	1200	bi-pin	08 UV-A black light/blue
	125992	36	19	840	single-pin	G36T5L

Energy savers

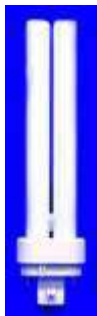
	Cat.No.	Volt	Watt	Diam.	Length	Base	Colour
	122090	230	11	32	110	B22	827
	122104	230	9	38	95	E14	827
	122113	230	8	45	107	E27	827 PH genie
	122128	230	8	48	97	E14	827 PH Tornado
	122131	230	8	48	87	E27	827 PH Tornado
	122133	230	15	52	108	E27	827 PH Tornado
	122134	230	20	57	116	E27	827 PH Tornado
	122206	220	20	54	143	E27	827
	122212	220	23	54	158	E27	827

Energy savers, classic

	Cat.No.	Volt	Watt	Diam.	Length	Base	Colour
	122214	230	5	44	101	E27	827

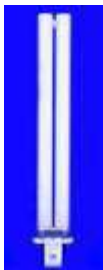
FLUORESCENT LIGHTING LAMPS

Energy savers, PLC type



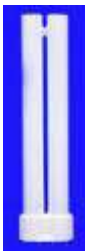
Cat.No.	Watt	Diam.	Length	Base		Colour
122136	10	28	118	G24d-1	2 pins	827
122137	10	28	118	G24d-1	2 pins	830
122138	10	28	118	G24d-1	2 pins	840
122140	13	28	140	G24d-1	2 pins	827
122143	13	28	140	G24d-1	2 pins	830
122144	13	28	140	G24d-1	2 pins	840
122141	18	28	152	G24d-2	2 pins	827
122146	18	28	152	G24d-2	2 pins	830
122147	18	28	152	G24d-2	2 pins	840
122149	26	28	173	G24d-3	2 pins	827
122150	26	28	173	G24d-3	2 pins	830
122151	26	28	173	G24d-3	2 pins	840
122226	13	28	132	G24q-1	4 pins	830
122228	18	28	144	G24q-2	4 pins	827
122229	18	28	144	G24q-2	4 pins	830
122231	18	28	144	G24q-2	4 pins	840
122233	26	27	164	G24q-3	4 pins	827
122237	26	27	164	G24q-3	4 pins	840

Energy savers, PLS type



Cat.No.	Watt	Diam.	Length	Base		Colour
122156	5	27	108	G23	2 pins	827
122158	7	27	138	G23	2 pins	827
122159	7	27	138	G23	2 pins	830
122160	7	27	138	G23	2 pins	840
122164	9	27	168	G23	2 pins	827
122165	9	27	168	G23	2 pins	830
122166	9	27	168	G23	2 pins	840
122170	11	27	238	G23	2 pins	827
122167	11	27	238	G23	2 pins	830
122168	11	27	238	G23	2 pins	840
122240	11	28/13	215	2G7	4 pins	827
122242	11	28/13	215	2G7	4 pins	840

Energy savers, PLL type



Cat.No.	Watt	Diam.	Length	Base		Colour
122178	18	38	225	2G11	4 pins	827
122179	18	38	225	2G11	4 pins	830
122180	18	38	225	2G11	4 pins	840
122184	36	38	415	2G11	4 pins	827
122185	36	38	415	2G11	4 pins	830
122186	36	38	415	2G11	4 pins	840
122190	55	38	535	2G11	4 pins	840

FLUORESCENT LIGHTING SPARES

Starters



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Cat.No.	Watt	Type	Fig.
122402	4-22	Philips S2 bi-pin	1
122406	4-22	FS2 bi-pin	
122410	4-65	Philips S10, bi-pin	
122414	4-80	FSU bi-pin	2
122448	85-140	Philips S12 bi-pin	
122508	4-6-8-10	FG 7E Japanese E17	3
122514	20	FG 1E Japanese E17	3
136500		LED dummy starter bi-pin	4



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Capacitors for fluorescent lighting



Cat.No.	μ F	Description
122594	3.4	connection with nut

Electronic ballasts



Cat.No.	Watt	Volt
122611	2 x 18 or 1 x 36	110-240 AC
122615	2 x 36	110-240 VAC
122619	2 x 58 or 1 x 115	220-240 AC

Ballasts, 110 Volt 60Hz for fluorescent lamps



Cat.No.	Watt
122670	8
122678	15
122682	18/20
122688	36/40
122692	58/65

Ballasts, 220 Volt 50Hz for fluorescent lamps



Cat.No.	Watt
122754	18/20
122768	2 x 18/20 or 1 x 36/40
122774	58/65

FLUORESCENT LIGHTING FIXTURES

Ballasts, 220 Volt 60Hz for fluorescent lamps



Cat.No.	Watt
122790	8
122796	15
122802	18/20
122816	32
122822	36/40

Lighting fittings, 220 Volt 50Hz (without lamps) for indoor use



Cat.No.	Watt	Length	Width	Height
126122	1 x 36	1230	62	85

Lighting fittings with shade and switch (without lamps) for indoor use



Cat.No.	Watt	Volt	Hz	Length	Width	Height
122848	1 x 8	110	60	327	85	40
122850	1 x 8	220	50/60	327	85	40

Fluorescent hand lamps, complete with cord



Cat.No.	Watt	Description
122878	1 x 8	12 Volt DC
122892	1 x 8	127 Volt 50/60Hz
122900	60 LEDS	220VAC/12VDC rechargeable

Watertight lighting fittings (IP65), base: reinforced polyester, shade clear methacrylic

24 Volt DC



Cat.No.	Watt	Length	Width	Height
126150	1x18	667	100	110
126156	2x18	667	170	110

FLUORESCENT LIGHTING OUTDOOR

Watertight lighting fittings (IP65), base: reinforced polyester, shade clear methacrylic
110 Volt 60Hz



Cat.No.	Watt	Length	Width	Height
126206	2x18	667	170	110
126218	2x36	1276	170	110

Watertight lighting fittings (IP65), base: reinforced polyester, shade clear methacrylic
220 Volt 50Hz



Cat.No.	Watt	Length	Width	Height
126296	2x18	667	170	110
126302	1x36	1276	100	110
126308	2x36	1276	170	110

Watertight lighting fittings (IP65), base: reinforced polyester, shade clear methacrylic
220 Volt 60Hz



Cat.No.	Watt	Length	Width	Height
126356	2x18	667	170	110
126362	1x36	1276	100	110
126368	2x36	1276	170	110

Shades for fluorescent fittings



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Cat.No.	L	W	H	For fitting	Fig	
126506	658	95	52	126150, 126180, 126200, 126260, 126290, 126350	1	*
126530	658	165	52	126156, 126186, 126206, 126266, 126296, 126356	1	*
126544	690	165	90	Philips TN25, TCT011	2	
126568	688	170	58	2 x 20W opal	3	
126580	675	142	68	Aqua Signal shade type 9840039300 2 x 18W clear	3	
126622	1265	165	52	Glamox MIR 2 x 18W clear also for MIX, MIL and MAX	1	*
126648	1335	130	58	126168, 126218, 126278, 126308, 126368	3	
126666	1291	140	70	Aqua Signal shade type 6000039700 2 x 36W clear	3	
				Glamox MIR 2 x 36W clear also for MIX, MIL and MAX		

* clear, impact resistant

It's easy to upgrade to LED!



Save on energy and maintenance

We offer Glamox and Aqua Signal LED replacement kits that are easy to use due to the tray concept. All mechanical parts, fixing and cable glands remain unchanged in the luminaire. All you need to change is the gear tray, an easy solution for converting to LED.

From tubes to LEDs – step by step – in just a few seconds.

MIR LED upgrade kit from T8 to LED
is suitable for Cat.No's 126391-126680



Please refer to our website for
information about our 5-year warranty.
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FLUORESCENT FIXTURE SPARES

Shade clamps for fluorescent fittings

Cat.No.	For fitting	Fig.
123010	126150....126368	1
123013	Stainless steel, 126150....126368	2



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Starter holders for fluorescent lighting

Cat.No.	Description	Fig.
123100	Type H06 for bi-pin starters	4
123108	With mounting pins, for bi-pin starters	5
123115	For fixture Glamox 'MIR'	6



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Lamp holders for fluorescent lighting

Cat.No.	Description	Type	Fig.
123150	For FL lamps 4-6-8-13 Watt		1
123224	With starter holder	V10	2
123226	Without starter holder	V10	3
123244	For 'Glamox'	R78	4
123252	Without starter holder	1863B/1853B	5
123254	With starter holder	1863A/1853A	6
123284	For Glamox 'MIR'		7
123285	W/spring f. Glamox 'MIR'		8
123290	Japanese, turret type big		9



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FLUORESCENT FIXTURE SPARES

Lamp holders for fluorescent lighting (continuation)

Cat.No.	Description	Type	Fig.
123302	Japanese, turret type small		9
123307	Japanese with spring	FL-M	10
123311	Japanese with spring	FL-L	11
123326	Watertight for 38 mm. diameter		12



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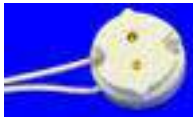
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12

LED LAMPS

LED filament, 230VAC, warm white



Cat.No.	Watt	Diam.	Length	Lumen	Base	Fig.
122326	4	60	105	470	E27	2

LED lamps with reflector, warm white MR16



GU5.3

Cat.No.	Volt	Watt	Diam.	Length	Lumen	Base	
122343	12	4	50	50	268	GU5.3	45°

LED lamps with halogen look, warm white



G9

Cat.No.	Volt	Watt	Diam.	Length	Lumen	Base	
122346	230	1.5	15	45	180	G9	2 pins
122349	12	1	10	23	100	G4	2 pins



G4

LED INDICATOR LAMPS

LED indicator lamps



Cat.No.	Volt	mA	Diam.	Length	Base	Colour
122370	24	20	10	23.5	BA9S	white
122372	24	20	10	23.5	BA9S	red
122374	24	20	10	23.5	BA9S	green
122376	24	20	10	23.5	BA9S	yellow
122378	230	3	10	23.5	BA9S	white
122380	230	3	10	23.5	BA9S	red
122382	230	3	10	23.5	BA9S	green
122384	230	3	10	23.5	BA9S	yellow

LED lamps Tubular indicator

Cat.No.	Volt	mA	Diam.	Length	Base	Colour
130750	12-30 VAC/DC	20	9	26	E10	white
130752	12-30 VAC/DC	20	9	26	E10	red
130754	12-30 VAC/DC	20	9	26	E10	green
130756	12-30 VAC/DC	20	9	26	E10	yellow
130760	80-260 VAC/DC	3	9	26	E10	white
130762	80-260 VAC/DC	3	9	26	E10	red
130764	80-260 VAC/DC	3	9	26	E10	green
130766	80-260 VAC/DC	3	9	26	E10	yellow

LED LAMPS, MAKE KERLED

LED lamps GLS, warm white, 3000K



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
130010	100-240	AC	7	640	E27	60	105
130020	100-240	AC	10	810	E27	60	110
130030	100-240	AC	15	1150	E27	71	135
130110	12-60	AC/DC	4	320	E27	60	110
130120	12-60	AC/DC	7	550	E27	60	110
130130	12-60	AC/DC	10	810	E27	60	114

LED lamps Candle, warm white, 3000K



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
130210	100-240	AC	3	250	E27	35	100
130220	100-240	AC	3	250	E14	35	100
130230	100-240	AC	5	400	E14	35	100

LED lamps Spherical, warm white, 3000K



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
130310	100-240	AC	3.3	250	E27	45	78
130320	100-240	AC	5	400	E27	45	78
130330	100-240	AC	3.3	250	E14	45	78
130340	100-240	AC	5	400	E14	45	78
130410	12-60	DC	3	250	E27	45	78
130420	12-60	DC	3	250	E14	45	78
130430	12-60	DC	3	250	BA15D	45	78
130440	12-60	DC	3	250	BA22D	45	78

LED lamps Tubular, warm white, 3000K



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
130510	95-265	AC	7	640	E27	38	108
130520	95-265	AC	8	810	E27	41	118
130530	95-265	AC	7	640	E14	38	108
130540	95-265	AC	7	640	BA22D	38	108
130550	95-265	AC	9	810	BA22D	38	108

LED lamps Tubular indicator, warm white, 3000K



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Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm	Fig.
130610	100-240	AC/DC	4.5	550	E27	27	60	1
130620	200-240	AC	2.5	250	E14	14	47	2
130630	100-240	AC/DC	4.5	550	BA22D	27	58	3
130640	200-240	AC	2.5	250	BA15D	17	47	4
130710	24-30	AC/DC	4.5	550	E27	27	60	1
130720	10-30	AC/DC	2	190	E14	17	52	2
130730	24-30	AC/DC	4.5	550	BA22D	27	58	3
130740	10-30	AC/DC	2	190	BA15D	17	47	4

LED LAMPS, MAKE KERLED

LED lamps R50 Reflector, warm white, 3000K



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
130810	95-265	AC	5	400	E14	50	86

LED lamps R63 Reflector, warm white, 3000K



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
130820	95-265	AC	8	640	E27	63	105

LED lamps GU10 Reflector, warm white, MR16 36°, 3000K



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
130910	100-250	AC	4	250	GU10	50	54
130920	100-250	AC	7.5	460	GU10	50	54

LED lamps Philinea, warm white, 2700K



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
131498	230	AC	5	405	S14s	30	300
131506	230	AC	8	700	S14s	30	500

LED Party lamps coloured

Cat.No.	Volt		Watt	Lumen	Base	D mm	L mm	Colour
130460	230	AC	1	7	E27	45	72	Red
130464	230	AC	1	7	E27	45	72	Green
130468	230	AC	1	7	E27	45	72	Yellow
130472	230	AC	1	7	E27	45	72	Blue



LED LAMPS TUBE

LED Tube Philips, white colour 840 with dummy starter



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
134100	220-240	AC	8	800	G13	26	589
134120	220-240	AC	14.5	1600	G13	26	1198
134140	220-240	AC	20	2200	G13	26	1500

LED tube Philips, daylight colour 865 with dummy starter

Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
134110	220-240	AC	8	800	G13	26	589
134130	220-240	AC	14.5	1600	G13	26	1198
134150	220-240	AC	20	2200	G13	26	1500

LED tube cost efficient, white colour 840 with dummy starter



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
134160	220-240	AC	9.7	1700	G13	26	894

LED tube, cost efficient, daylight colour 865 without dummy starter

Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
134164	100-240	7	7	700	G13	26	437
134168	100-240	14	14	1400	G13	26	894

LED tube cost efficient, daylight colour 865 with dummy starter

Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
134170	220-240	AC	9.7	1700	G13	26	894

LED tube multi-range voltage, warm white colour 830 with dummy starter



Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
134200	85-265	AC	9	830	G13	26	589
134210	85-265	AC	18	1750	G13	26	1198
134220	85-265	AC	22	2200	G13	26	1500

LED tube multi-range voltage, white colour 840 with dummy starter

Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
134230	85-265	AC	9	850	G13	26	589
134240	85-265	AC	18	1780	G13	26	1198
134250	85-265	AC	22	2230	G13	26	1500

LED tube multi-range voltage, daylight colour 860 with dummy starter

Cat.No.	Volt	~/=	Watt	Lumen	Base	D mm	L mm
134260	85-265	AC	9	870	G13	26	589
134270	85-265	AC	18	1800	G13	26	1198
134280	85-265	AC	22	2250	G13	26	1500

LED accessories and spares

Cat.No.	Description
136500	LED dummy starter bi-pin



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PROFESSIONAL MARINE LIGHTING
HIGH LUMEN / VOLTAGE RANGES
LONG LIFE SPAN / SHOCK PROOF

LED INDOOR LIGHTING

LED Torches and Handlamp

Cat.No.	Description	Fig.
135010	Work Light LED 3W with magnet 180Lm 6000K IP20 3xAAA	1
135020	Work Light LED 10W with magnet 1000Lm 6500K IP44 rechargeable 100-240VAC/12-24VDC	2
136010	Handlamp LED 4W 38 LED's 230V 250Lm 5000K IP44 with 5 mtr cable	3



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LED Mirror/Bathroom Luminaire

Cat.No.	Description	Fig.
135550	Luminaire LED 10W 850Lm 3000K 85-265VAC with switch and 2 round pins socket plus cover IP44, 473 x 57.5 x 105.5mm (L x W x H)	4



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LED Berth light

Cat.No.	Description	Fig.
135560	Berth light LED 12W 830Lm 3000K 220-240VAC without switch adjustable reflector IP54 220 x 90 x 63mm (L x W x H)	5
135570	Berth light LED 3W spot 130Lm 6500K + 6W backlight 190Lm 3000K 85-265VAC with USB Port 5V 2A and switch	6
135580	Berth light LED 6.5W 353Lm 3000K 110-230VAC with switch and USB, IP40 228 x 95 x 38mm (L x W x H)	7

LED Batten surface mounting

Cat.No.	Description
135700	Luminaire LED 9W 850Lm 3000K 220-240VAC 60cm IP20
135710	Luminaire LED 18W 1700Lm 3000K 220-240VAC 122cm IP20
135720	Luminaire LED 9W 850Lm 4000K 220-240VAC 60cm IP20
135730	Luminaire LED 18W 1700Lm 4000K 220-240VAC 122cm IP20



LED INDOOR LIGHTING

LED Batten surface mounting, through wiring

Cat.No.	Description	Fig.
135800	Luminaire LED 9W 850Lm 3000K 220-240VAC 60cm IP20 with 1 mtr cable, switch, mounting clips and through wiring connector	1
135810	Luminaire LED 15W 1500Lm 3000K 220-240VAC 90cm IP20 with 1 mtr cable, switch mounting clips and through wiring connector	1
135820	Luminaire LED 19W 2000Lm 3000K 220-240VAC 120cm IP20 with 1 mtr cable, switch mounting clips and through wiring connector	1
135830	Luminaire LED 9W 850Lm 4000K 220-240VAC 60cm IP20 with 1 mtr cable, switch mounting clips and through wiring connector	1
135840	Luminaire LED 15W 1500Lm 4000K 220-240VAC 90cm IP20 with 1 mtr cable, switch mounting clips and through wiring connector	1
135850	Luminaire LED 19W 2000Lm 4000K 220-240VAC 120cm IP20 with 1 mtr cable, switch mounting clips and through wiring connector	1
135880	Through wiring connector cable length 15cm	2



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LED Bulleye

Cat.No.	Description	Fig.
135890	Bulleye propylene LED 5W 620Lm 4000K 230VAC IP40 IK06 with iron guard, T-entry	3

LED OUTDOOR LIGHTING

LED Handlamp

Cat.No.	Description
136006	Handlamp LED 7W 700 Lm 2700K 24VAC/DC with 5 mtr cable and car plug



LED Floodlights on rack, rechargeable

Cat.No.	Description	Watt	Lumen			Volt	Fig.
136050	Floodlight LED	10	560	6400K	IP65	100-240VAC	1
136060	Floodlight LED	20	1010	6400K	IP65	100-240VAC	2
136070	Floodlight LED	50	2750	4000K	IP65	100-240CAC	2

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LED Floodlights on rack with 5 mtr cable

Cat.No.	Description	Watt	Lumen			Volt
136200	Floodlight Class 2	30	2700	4000K	IP65	230VAC
136204	Floodlight Class 2	50	4500	4000K	IP54	230VAC
136208	Floodlight Class 2	100	8000	4000K	IP65	230VAC
136212	Floodlight Class 2	150	16500	5000K	IP54	230VAC



LED OUTDOOR LIGHTING

LED Luminaire with housing and diffuser made of polycarbonate (IK08)

Cat.No.	Light source	Watt	Lumen			Volt	Length
136300	LED tube	1 x 7.5	1125	IP65	4000K	230VAC	65cm
136308	LED tubes	2 x 7.5	2250	IP65	4000K	230VAC	65cm
136316	LED tube	1 x 14	2100	IP65	4000K	230VAC	126.5cm
136324	LED tubes	2 x 14	4200	IP65	4000K	230VAC	126.5cm
136340	LED tube	1 x 9	880	IP65	4000K	110-240VAC	60cm
136348	LED tubes	2 x 9	1760	IP65	4000K	110-240VAC	60cm
136356	LED tube	1 x 18	1780	IP65	4000K	110-240VAC	120cm
136364	LED tubes	2 x 18	3560	IP65	4000K	110-240VAC	120cm



LED luminaire multipurpose with housing and diffuser made of polycarbonate, make WISKA (IK10)

Cat.No.	Light source	Watt	Lumen			Volt	Length
136288	LED 4010, LED stripes	16	2400	IP66/67	4000K	230VAC	49cm
136290	LED 4010, LED stripes	32	4800	IP66/67	4000K	230VAC	76.6cm

LED luminaire multipurpose with housing made of high quality steel plate powder coated white clear polycarbonate diffuser and B15d lamholder for emergency lamp.

Light sources not included, highly recommended for use with LED tubes and dummy starter

Cat.No.	Light source	Watt				Volt	Length
136366	2 x T8 G13 60cm	8		IP67		230V	69.2cm
136368	2 x T8 G13 120cm	14.5		IP67		230V	133cm

LED Luminaire with housing made of stainless steel powder coated white and polycarbonate diffuser (IK10)

Cat.No.	Light source	Watt	Lumen			Volt	Length
136370	LED stripes	2 x 11	2 x 1250	4000K	IP66/67	110-240VAC/DC	73cm
136374	LED stripes	4 x 11	4 x 1250	4000K	IP66/67	110-240VAC/DC	134cm

LED OUTDOOR LIGHTING

LED luminaire with housing made of stainless steel and polycarbonate diffuser,

MIR LED make Glamox (IK10)

Cat.No.	Description	Watt	Lumen	CCT	IP	Volt	Length	Fig.
136293	Luminaire with LED stripes MIR101985 (new type)	18	2678	4000K	IP66/67	220-240VAC	72.4cm	1
136295	Luminaire with LED stripes MIR102145 (new type)	34	5168	4000K	IP66/67	220-240VAC	133.4cm	2
136296	Replacement kit LED to upgrade the MIR T8 to LED version	18	2460	4000K	IP66/67	220-240VAC	64.5cm	3
136298	Replacement kit LED to upgrade the MIR T8 to LED Version	36	4913	4000K	IP66/67	220-240VAC	125cm	4



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LED luminaire for hazardous areas CEAG Exlin (IK08)

Cat.No.	Description	Watt	Lumen	CCT	IP	Volt	Length	Fig.
137000	Luminaire with LED ExLin 3L-1 zone 1-2 and 21-22	22	2750	5000K	IP66/67	110-277V AC/DC	77cm	5
137010	Luminaire with LED Exlin 5L-2 zone 1-2 and 21-22	44	5300	5000K	IP66/67	110-277V AC/DC	93.1cm	6



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GAS-DISCHARGE LAMPS AND ACCESSORIES

High-pressure mercury lamps for use with ballast



Cat.No.	Watt	Diam.	Length	Base	
142234	250	100	242	E40	
142240	300	115	290	E39	
142243	400	116	280	E39	*
142246	400	115	290	E40	
142250	700	140	370	E39	*

* Japanese type

Japanese high-pressure mercury lamps with reflector type HRF for use with ballast



Cat.No.	Watt	Diam.	Length	Base
142310	300	165	305	E39
142316	400	180	315	E39
142322	700	280	410	E39
142328	1000	280	410	E39

Blended-light lamps type BHF for use without external ballast (AC only)



Cat.No.	Volt	Watt	Diam.	Length	Base
142355	110	300	88	221	E40
142372	110/120	500	120	280	E40
142408	220	300	100	245	E40
142412	220	500	120	280	E40

Blended-light lamps with reflector for use without external ballast (AC only)



Cat.No.	Volt	Watt	Diam.	Length	Base
142426	100/110	300	160	238	E39
142430	110/120	500	175	315	E39
142434	220/230	160	118	160	E26
142437	200/220	300	160	238	E39
142440	200/230	500	180	315	E39

GAS-DISCHARGE LAMPS AND ACCESSORIES

Blended-light lamps with reflector for use without external ballast (AC only)



Cat.No.	Volt	Watt	Diam.	Length	Base
142426	100/110	300	160	238	E39
142430	110/120	500	175	315	E39
142434	220/230	160	118	160	E26
142437	200/220	300	160	238	E39
142440	200/230	500	180	315	E39

High-pressure sodium lamps for use with ballast



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Cat.No.	Watt	Diam.	Length	Base	Fig.
142460	250	47	257	E40	3
142463	250	91	226	E40	1
142465	400	23	206	Fc2	4
142466	400 Ph.	122	292	E40	1
142468	400	47	283	E40	3
142473	600	47	283	E40	3
142475	700	150	375 NHF	E39	2
142478	1000	67	390	E40	3



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Low-pressure sodium lamps for use with ballast



Cat.No.	Watt	Diam.	Length	Base
142508	55	52	425	BY22
142512	90	68	528	BY22

GAS-DISCHARGE LAMPS AND ACCESSORIES

Ballasts for high-pressure mercury lamps



Cat.No.	Volt	Watt	Hertz
142628	110	700	60
142636	220	125	60
142652	220	250	60

Ballasts for high-pressure mercury lamps



Cat.No.	Volt	Watt	Hertz
142660	220	400	50
142676	220	700	60
142687	220	1000	60

also for sodium and metal halide lamps

Ballasts for high-pressure sodium lamps



Cat.No.	Volt	Watt	Hertz
142704	110	400	60
142730	220	400	50
142684	220	1000	60

Ignition and starter devices for sodium lamps



SN 58

Cat.No.	Description
142818	Series ignitor type 126835/MZN 400
142849	Ignitor SND58 for 150, 250 and 400W



MZN 400

Metal Halide lamps for use with ballast



Cat.No.	Watt	Diam.	Length	Base	Type
142907	70	20	114	Rx7s	HRI-TS
142912	250	25	163	Fc2	HQI-TS
142921	250	47	257	E40	HPI-T
142924	400	46	283	E40	HPI-T
142936	400	27	205	Fc2	HRI-TS
142950	1000	76	340	E40	HQI-T
142962	2000	102	430	E40	HPI-T

LEAD ACID STORAGE BATTERIES AND ACCESSORIES

Lead acid storage batteries



Cat.No.	Volt	Ah	Length	Width	Height	Int. code	
160192	6	240	244	190	275	24015	
160298	12	2.3	178	35	61		AGM battery
160299	12	3.2	134	67	61		AGM battery
160301	12	7	151	65	98		AGM battery
160302	12	9	151	65	100		AGM battery
160303	12	12	151	98	98		AGM battery
160305	12	20	181	77	167		AGM battery
160413	12	28	195	127	186	52815/U1R	maint. free
160376	12	40	175	175	190	CA54018	maint. free
160390	12	44	210	175	175	CA54465	maint. free
160416	12	50	200	170	221	CA55041	maint. free
160428	12	45	238	129	227	CA54523	maint. free
160436	12	56	242	175	190	CA55559	maint. free
160458	12	60	242	175	175	CA56011	maint. free
160466	12	72	278	175	175	CA57113	maint. free
160474	12	70	272	173	223	CA57024	maint. free
160482	12	85	354	175	175	CA58515	maint. free
160496	12	100	306	173	200	CA60032	maint. free
160498	12	110	350	175	235	AC61048	
160514	12	135	514	175	210	AC63539	
160522	12	120	513	189	223	62034	
160530	12	155	513	223	220	64317	
160544	12	140	513	189	220	64020	
160548	12	165	506	212	230		maint. free
160552	12	180	513	223	240	96351	maint. free
160558	12	200	509	274	238		maint. free
160572	12	230	514	275	242	96803	maint. free
160580	12	220	518	276	242		AGM battery



LEAD ACID STORAGE BATTERIES AND ACCESSORIES

Chargers for storage batteries



Cat.No.	Output DC Volt	Amps	Input AC Volt	
162118	12	10	230	
162120	6-12	2-6-12	230	Automatic *
162123	12-24	10	110	
162196	12-24	12	110-250	Automatic *
162130	12-24	30-18	230	

* also for gel and AGM batteries

Connectors and service aids for storage batteries



Cat.No.	Description
162170	Battery clips 40A red
162172	Battery clips 40A black
162176	Battery clips 80A red
162178	Battery clips 80A black
162184	Barrels + with bolt for round poles
162186	Barrels - with bolt for round poles
162314	Hydrometer for lead acid batteries
162322	Battery syringe
162340	Petroleum gel (vaseline), cans of 0.5kg
162364	Automatic battery filler (2 litres)
162378	Battery/Cell tester 12V 100A / 6V 50A



Liquids for storage batteries



Cat.No.	Description
160882	Demineralized water, can of 20 litres

BATTERIES AND ACCESSORIES

Alkaline batteries



Cat.No.	Volt	I.E.C.	Diam.	Length	Brand
182208	1.5	LR1	12	30.2	Camelion
182210	1.5	LR1	12	30.2	Duracell MN9100
182222	1.5	LR03	10.5	44.5	Procell
182232	1.5	LR6	14.5	50.5	Camelion
182234	1.5	LR6	14.5	50.5	Procell
182240	1.5	LR6	14.5	50.5	Varta
182250	1.5	LR14	26	5	Camelion
182252	1.5	LR14	26	50	Procell
182258	1.5	LR14	26	50	Varta
182270	1.5	LR20	34	61.5	Procell
182276	1.5	LR20	34	61.5	Varta



Alkaline batteries



Cat.No.	Volt	I.E.C.	Width	Height	Length	Brand
182310	9	6LR61	17.5	48	26.5	Camelion
182312	9	6LR61	17.5	48	26.5	Procell
182318	9	6LR61	17.5	48	26.5	Varta
182532	12	A23		28	10	

Batteries for general use

Cat.No.	Volt	I.E.C.	Width	Height	L / diam.	Type	Fig.
182460	6	4R25	67	105	67	spring	1
182484	9	6F22	17.5	48.5	26.5		2



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BATTERIES AND ACCESSORIES

Button cells



Cat.No.	Volt	Diam.	Height	Type	I.E.C.
182674	1.5	7.87	3.63	AG3	LR41
182696	1.5	11.6	3.10	AG10	LR54
182718	1.5	11.6	4.06	AG12	LR43
182740	1.5	11.6	5.36	AG13	LR44
182766	1.5	6.8	2.60	AG4	LR66

Lithium batteries



Cat.No.	Volt	Diam.	Length	Type	
182912	3	12	2	CR1220	
182920	3	16	1.6	CR1616	
182924	3	16	2	CR1620	
182934	3	20	1.6	CR2016	
182956	3	20	2.5	CR2025	
182978	3	20	3.2	CR2032	
182983	3	23	2.5	CR2325	
182988	3	24	3	CR2430	
182993	3	24	5	CR2450	
183000	3	16.9	34	CR123A	
183090	3.6	14	25	1/2 AA	
183104	3.6	14.5	50.5	AA	
183108	3.6	26	50	C	
183112	3.6	34	61	D	
183180	6	34	45	2CR5	17 Height

BATTERIES ACCESSORIES

Rechargeable batteries

Cat.No.	Volt	Diam.	Length			Type
184013	1.2	12	30.2	NiMH	2/3N	500mAh
184017	1.2	10.5	44.5	NiMH	AAA	1100mAh
184027	1.2	14.5	50.5	NiMH	AA	2700mAh
184033	1.2	26	50	NiMH	C	2500mAh
184041	1.2	34	61	NiMH	D	2500mAh
184049	8.4	26.5x17.5x48		NiMH	Block	250mAh

Chargers for rechargeable batteries



Cat.No.	Description
184102	For NiCd and NiMH 4x AAA/AA/C/D and 2x 9V input 100-240 VAC
184104	Fast charger NiMH 4x AAA/AA/C/D and 1x 9V input USB-C 5V 1A
482704	USB power supply USB A + USB C 5V 3A input 100-240 VAC

FLASHLIGHTS AND ACCESSORIES

Flashlights for general use



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Cat.No.	Description	Fig.
202080	Maglite -SOLITAIRE- (1 x LR03) IPX4 #K3A016	1
202081	Maglite SOLITAIRE LED (1 x LR03) IPX7 #J3A012	2
202082	-MINI- Maglite (2 x R6) IPX4	3
202083	MINI Maglite LED (2 x R6) IPX4 #SP22017	4
202084	Maglite -S 2D010- (2 x R20) IPX4	5
202086	Maglite LED S3D (3 x R20) IPX4 #ST3D015	6
202184	Rechargeable LED flashlight 1200LM IPX7 5000K with USB-C cable	
202187	Rechargeable LED flashlight 5W complete with charger 110-230V and Lithium battery IPX4	8
202188	Rechargeable LED flashlight with charger 110/240V and NiMH battery IP65	9
202189	Rechargeable Maglite LED ML150R with charger 100-240VAC and 12VDC adapter/car plug incl. lithium-ion battery IPX4	7
202191	Rechargeable flashlight LED Coast XP40R IP54 with slide function incl. USB-C cable	
202114	Flashlight LED (2 x R6) with magnet complete with batteries	10
202128	Rubber flashlight (2 x R14) with morse Solas appr. IP67	11
202143	Plastic flashlight (2 x R20) with batteries	12
202174	Flashlight for flat 4.5V battery 3R12 or 3LR12	13
202176	Rubber flashlight LED (2 x R20) IP44	14
202183	Rechargeable LED flashlight input 110/220VAC	15
202190	Headlamp 3-LED with 3 x AAA alk. batteries, low and high beam IPX4	16

FLASHLIGHTS AND ACCESSORIES

Explosion proof flashlights

	Cat.No.	Description	Zone	Fig.
	202121	Peli penlight 1975Z0, Atex (2 x R03) LED	0	
	202123	Peli 3315C LED, yellow, 110Lm, Atex, cat.1 (3 x AA)	0	
	202124	Sabrelite 2010Y (3 x LR14) LED IPX7 #2010Y	0 & 20	1
	202125	Bright Star Razor LED (3 x R6) #60160	0	2
	202204	Bright Star 2217 LED ATEX , 2-cells #16460	0	3
	202216	Wolf TS-26 Atex, 2-cells	1 & 2	4
	202227	Peli 2460Z1 LED rechargeable with charger 100-240V	1	5
	202230	Headlamp Atex LED, high and low white beam, IP67, IPX7, (3 x AAA)	0,1,2	6
	202232	Headlamp Peli 2690Z0 LED (3 x R03)	0	7
				4
				5
				6
				7

Handlamps

	Cat.No.	Description	Fig.
	202246	PVC handlamp, water resist., 4 x R20 (UM1)	1
	202248	PVC handlamp, LED, 4 x R20 (UM1) or 1 x 4R25	2
	202406	Rechargeable handlamp LED c/w charger 100-240VAC/12VDC, 5W, light time approx. 3H	3
			2
			3

Explosion proof handlamps

	Cat.No.	Description	Fig.
	202400	Reed switch for Beamgun	
	203248	Sealed beam 4.75V type 4546	1
	202278	Wolf type H-4DCALED 4 x R20 ATEX	2
	202296	Bright Star type 2206 UL #07050 (battery K182460)	3
	202300	Bright Star type 2206 LED UL zone 1 & 2 #08050 (4 x R20/D)	3
			3

FLASHLIGHTS AND ACCESSORIES

Accessories for Wolflite rechargeable handlamp H-251/MK2, H251A



Cat.No.	Description	Type
202496	Batterypack for Wolflite	H-251/16E
202546	Charger for Wolflite input voltage 110/220VAC	LC-251/HV
203224	Crypton lamp 3.6V with P13.5 base for Wolflite	



Wolflite rechargeable handlamp, explosion proof, ATEX approved



H66

Cat.No.	Description
202481	Wolflite rechargeable explosion proof handlamp ATEX type H251ALED, with battery
202505	Batterypack for Wolflite ATEX type H66
202546	Charger for Wolflite input voltage 110/220VAC type LC-251/HV for 251/MK2 and 251ALED
203302	Halogen lamp 3.75V PX13.5s for Wolflite type H251A ATEX

FLASHLIGHTS AND ACCESSORIES

Signalling lights and accessories

Cat.No.	Description	Fig.
202620	Day sign. lamp Wiska, 12/24V, 30W, IP56, with 5 mtr cable and conc. plug in polypropylene carrying case	1
202622	Day sign. lamp Wiska, 12/24V, 30W, IP56, with 5 mtr cable, conc. plug, battery pack and charger 230V in carrying bag	2
202640	Carrying case with receptacle, plug and 12V maintenance free batteryset for signalling lamp	3
203311	Carrying case with receptacle, plug and 24V maintenance free batteryset for signalling lamp	3



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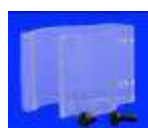


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Spare-parts for Bright Star flashlights



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Cat.No.	Description	Fig.
202714	Lenses for BS flashlights 48 mm diam., acrylate	1
202722	Lenses for BS flashlights 'shatterproof'	
202802	Holder for 2D flashlights	

Flashlight lamps for Maglite, Mitylite and Super Sabrelite



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Cat.No.	Description	Dimensions	Fig.
202901	LK3A001 for Maglite SOLITAIRE	3 x 14	1
202903	LM2A001E for MINI Maglite	3 x 15.5	2
203133	KPR-102 (PR2) Crypton for Maglite 2SD010	11 x 29	3
202973	Lampunit 1904 for Mitylite Xenon		4
202977	Lampunit 2004 for Super Sabrelite 2000B		5
202981	Model LR00001U, part no. 107-000-389 for rechargeable Maglite K202185	7 x 16/24	6

FLASHLIGHTS AND ACCESSORIES

Halogen flashlight lamps with PX13.5s base



Cat.No.	Volt	Watt	Diameter	Length
203294	2.8	1.4	8	28
203300	2.8	2.38	11	28
203302	3.75	2.8	9	31
203304	3.8	2.8	11	28
203312	4.8	2.4	11	28

Lens-end lamps with E10 base



Cat.No.	Volt	Diameter	Length
202906	1.2	11	23
202912	2.5	11	23
202918	3.8	11	23

Flashlight lamps with E10 base



Cat.No.	Volt	Diameter	Length
202950	2.5	11	23
202956	3.5	11	23
202962	4	11	28
202968	6	11	28

Lens-end lamps with P13.5s base



Cat.No.	Volt	Diameter	Length
203108	2.5	11	28
203114	3.7	11	28

Prefocus flashlight lamps with P13.5s base



Cat.No.	Volt	Type	Diameter	Length
203130	2.4	PR 2	11	28
203136	3.6	PR 3	11	28
203142	4.8	PR 13	11	28
203148	6	PR 12	11	28
203154	7.2	PR 18	11	28
203160	8.6	PR 20	11	28

ANTENNAS AND ACCESSORIES

Coaxial cables



Cat.No.	Type	Imp./Ohm	Diameter	Colour
220108	RG 58	50	5	black
220120	RG 213	50	10	black
220126	RG 214	50	10.5	black
			with double screen	
220132	domestic	75	6	white
220144	RG 59	75	6	black

Antenna plugs and accessories



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Cat.No.	Description	Fig.
222204	Banana plug, male, red	1
222210	Banana plug, male, black	1
222226	Banana plug, female, red	2
222238	Banana plug, female, black	2
222250	Domestic coaxial plug male	3
222254	Domestic coaxial plug female	4
222258	Domestic coaxial connector	5
222260	F-connector	



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ANTENNAS AND ACCESSORIES

Antenna plugs and accessories (continuation)

Cat.No.	Description	Type	Fig.
222300	Coaxial plug 9mm	PL259/9	6
222312	Coaxial line-connector	PL258	7
222324	Coaxial ' T ' adaptor	M358	8
222336	Coaxial square socket	SO239	9
222348	Coaxial reducer	UG175	10
222400	Receptacle for TV/Radio antenna, flush and surface mounting		11
222440	Coaxial splitter with two outlets		12

Antenna wire

Cat.No.	Description
220210	Antenna wire 6.3 mm diam.



Antenna insulators and accessories

Cat.No.	Description	Fig.
222550	Galvanized bow shackle	13
222610	Thimble 1" for antenna wire 4 mm	14



ALARM EQUIPMENT

Watertight bells, 150 mm gong diameter



Cat.No.	Volt	
242069	12 V/24V	DC *
242072	24 V/42V	DC *
242078	24V	AC *
242104	220/240V	AC *
242110	Watertight connection box IP44 for bells	

* only watertight in combination with connection box for bells

Watertight bells with pilot lamp, 200 mm gong diameter



Cat.No.	Volt
242131	24VDC
242133	110VAC
242135	220VAC

Buzzers, surface mounting



Cat.No.	Volt		
242208	10 - 30VDC	92dB/1 mtr	IP43
242216	110 - 240VAC	100dB/1 mtr	IP54

Buzzers, electronic, flush mounting



Cat.No.	Volt		
242250	10 - 30V AC/DC	90dB/1 mtr	IP30
242264	115 - 250VAC	95dB/1 mtr	IP33

Buzzers Japanese with pilot light for outdoor use



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Cat.No.	Volt	Fig.
242280	24VDC	1
242284	110VAC	2
242288	220VAC	1

ALARM EQUIPMENT

Hooters for indoor use



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Cat.No.	Volt			Fig.
242304	24VAC	IP54	110dB/1 mtr	1
242320	24VDC	IP33	95dB/1 mtr	2
242328	110VAC	IP54	105dB/1 mtr	1
242336	220VAC	IP33	95dB/1 mtr	2
242344	220VAC	IP54	105dB/1 mtr	1



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Hooters for outdoor use, 110 dB (A) 1 m, housing of ABS, IP55



Cat.No.	Volt
242406	24VDC
242414	110VAC
242422	220VAC

Hooters with LED warning light, 92 dB, IP43



Cat.No.	Volt
242450	24VDC
242454	220VAC

Motor driven sirens, metal, 100 dB at 3 meters



Cat.No.	Volt
242508	24V AC/DC
242520	110V AC/DC
242532	220V AC/DC

ALARM EQUIPMENT

Rotating beacons IP65



Cat.No.	Volt	Colour
242604	24VDC	amber
242608	24VDC	blue
242612	24VDC	red
242622	110VAC	amber
242626	110VAC	blue
242630	110VAC	red
242640	220VAC	amber
242644	220VAC	blue
242648	220VAC	red

Globes for rotating beacons



Cat.No.	Colour
242670	amber
242680	blue
242690	red

CABLES

PVC insulated wire, solid, single core

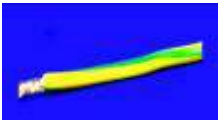
	Cat.No.	mm ²	Overall diameter	Colour	
	260050	0.75	2	red	
	260060	0.75	2	black	
	260074	1	2	red	
	260078	1	2	green/yellow	
	260080	1	2	brown	
	260082	1	2	blue	
	260086	1	2	black	
	260090	1.5	3	white	
	260094	1.5	3	red	
	260098	1.5	3	green/yellow	
	260100	1.5	3	brown	
	260102	1.5	3	blue	
	260106	1.5	3	black	
	260118	2.5	3.5	green/yellow	
	260120	2.5	3.5	brown	
	260122	2.5	3.5	blue	
	260126	2.5	3.5	black	
	260140	4	4	black	7-strands
	260156	6	5	black	7-strands

PVC insulated flexible cable, single core

	Cat.No.	mm ²	Overall diameter	Colour	
	260200	0.75	2	white	
	260202	0.75	2	yellow	
	260204	0.75	2	orange	
	260206	0.75	2	red	
	260208	0.75	2	green	
	260210	0.75	2	green/yellow	
	260212	0.75	2	brown	
	260214	0.75	2	blue	
	260216	0.75	2	grey	
	260218	0.75	2	black	
	260220	1	2	white	
	260222	1	2	yellow	
	260224	1	2	orange	
	260226	1	2	red	
	260228	1	2	green	
	260230	1	2	green/yellow	
	260232	1	2	brown	

CABLES

PVC insulated flexible cable, single core (continuation)

	Cat.No.	mm ²	Overall diameter	Colour
	260234	1	2	blue
	260236	1	2	grey
	260238	1	2	black
	260240	1.5	3	white
	260244	1.5	3	orange
	260246	1.5	3	red
	260248	1.5	3	green
	260250	1.5	3	green/yellow
	260252	1.5	3	brown
	260254	1.5	3	blue
	260256	1.5	3	grey
	260258	1.5	3	black
	260260	1.5	7	sparking plug cable
	260264	2.5	3.5	white
	260266	2.5	3.5	yellow
	260270	2.5	3.5	red
	260274	2.5	3.5	green/yellow
	260276	2.5	3.5	brown
	260278	2.5	3.5	blue
	260280	2.5	3.5	grey
	260282	2.5	3.5	black
	260296	4	4.5	red
	260302	4	4.5	green/yellow
	260308	4	4.5	black
	260314	6	5	red
	260320	6	5	green/yellow
	260326	6	5	black
	260330	10	6.5	red
	260336	10	6.5	green/yellow
	260342	10	6.5	black
	260352	16	8	green/yellow
	260364	16	8	black
	260368	25	10	green/yellow
	260370	25	10	red
	260376	25	10	black

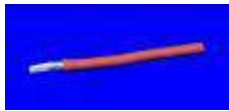
CABLES

Fibreglass/mineral silicon flexible cable, 350° C



Cat.No.	mm2	Overall diameter
260400	1.5	4.5
260402	2.5	4.5
260404	4.0	5.0

Silicon insulated flexible cable, 180° C



Cat.No.	mm2	Overall diameter
260450	1.5	2.5
260452	2.5	3.5
260454	4	4.0
260456	6	4.5
260458	10	7.0
260465	2 x 1.5	7.0
260470	3 x 1.5	7.5
260473	3 x 2.5	9.0

Welding cable, neoprene insulated



Cat.No.	mm2	Overall diameter
260504	35	13
260506	50	15
260508	70	18
260510	95	20

Parallel flexible cable, PVC



Cat.No.	mm2	Width	Height	Colour	
260008	2 x 0.35	4	2	grey	loudspeaker cable
260530	2 x 0.75	6	3	black	
260534	2 x 0.75	6	3	transparent	
260542	2 x 0.75	6	3	white	
260010	2 x 1.50	7	3	cl/red	loudspeaker cable

CABLES

PVC multicore flexible cable, colour black or white



Cat.No.	mm ²	Overall diameter	Colour
260606	2 x 0.75	6.5	white
260608	2 x 0.75	6.5	black
260610	2 x 1	7	white
260612	2 x 1	7	black
260614	2 x 1.5	8	white
260616	2 x 1.5	8	black
260618	2 x 2.5	9	black
260620	2 x 2.5	9	white
260622	3 x 0.75	7	white
260624	3 x 0.75	7	black
260626	3 x 1	7.5	white
260628	3 x 1	7.5	black
260630	3 x 1.5	8.5	white
260632	3 x 1.5	8.5	black
260634	3 x 2.5	10.5	black
260636	3 x 2.5	10.5	white
260490	4 x 0.6	4.5	for telephone
260638	4 x 1.5	9.2	black
260640	4 x 2.5	11	black

Rubber multicore flexible cable



Cat.No.	mm ²	Overall diameter	
260702	2 x 0.75	6	
260704	2 x 1	7	
260706	2 x 1.5	8	
260708	2 x 2.5	10	
260710	2 x 2.5	13 x 5	flat type for illumination
260714	3 x 0.75	7.5	
260716	3 x 1	7.5	
260718	3 x 1.5	9	
260720	3 x 2.5	11	
260724	4 x 1.5	11	
260726	4 x 2.5	13	
260730	5 x 1.5	11	

CABLES

Neoprene (oil resistant) flexible cable



Cat.No.	mm2	Overall diameter
260814	2 x 1.5	9
260816	2 x 2.5	11.5
260820	3 x 1	9.5
260822	3 x 1.5	10.5
260824	3 x 2.5	12
260826	3 x 4	13.5
260828	3 x 6	15
260830	3 x 10	20
260832	3 x 16	25
260834	3 x 25	29
260836	3 x 35	31
260838	3 x 50	36
260842	4 x 1.5	11
260844	4 x 2.5	13
260846	4 x 4	15.5
260848	4 x 6	16
260850	4 x 10	26
260852	4 x 16	29
260854	4 x 25	33.5
260856	4 x 35	35
260858	4 x 50	40
260860	4 x 70	46
260862	4 x 95	51
260864	4 x 120	57
260868	5 x 1.5	12.5
260870	5 x 2.5	15
260871	5 x 4	17
260873	5 x 6	18
260875	5 x 10	26.5
260890	7 x 1.5	13

Neoprene drum reeling cable NSHtou



Cat.No.	mm2	Overall diameter
260900	5 x 6	22
260910	5 x 10	26

Flexible yarn covered cable



Cat.No.	mm2	Overall diameter
260014	3 x 0.75	6

CABLES

PVC control cable, flexible, colour grey, -5° C / +80° C



Cat.No.	mm 2	Overall diameter
261010	3 x 1	7.1
261014	4 x 1	7.7
261018	5 x 1	8.6
261022	7 x 1	9.5
261026	12 x 1	12.4
261030	18 x 1	15
261034	25 x 1	18.4
261038	34 x 1	20.4
261042	48 x 1	24.2
261046	50 x 1	24.4
261050	3 x 1.5	7.6
261054	4 x 1.5	8.4
261058	5 x 1.5	9.4
261062	7 x 1.5	10.5
261066	12 x 1.5	14.1
261070	18 x 1.5	16.6
261074	20 x 1.5	17.3
261078	25 x 1.5	19.4
261082	34 x 1.5	20.6
261086	42 x 1.5	24.3
261090	50 x 1.5	26.1
261094	3 x 2.5	9.5
261098	4 x 2.5	10.6
261102	5 x 2.5	11.7
261106	7 x 2.5	12.7
261110	12 x 2.5	17.5
261118	25 x 2.5	24.3

CABLES

PVC control cable, flexible with copper screen and PVC
outside cover, colour grey, -5° C / +80° C



Cat.No.	mm ²	Overall diameter
261130	2 x 0.75	6.0
261134	4 x 0.75	7.9
261138	7 x 0.75	9.2
261142	18 x 0.75	14.0
261146	3 x 1	7.8
261150	4 x 1	8.1
261154	5 x 1	8.9
261158	7 x 1	9.4
261162	12 x 1	13.4
261166	18 x 1	15.5
261170	24 x 1	19.5
261174	40 x 1	22.9
261178	50 x 1	25.7
261182	61 x 1	27.3
261186	80 x 1	32.7
261190	2 x 1.5	7.6
261194	3 x 1.5	8.1
261198	4 x 1.5	9.3
261202	5 x 1.5	10.2
261206	7 x 1.5	11.0
261210	12 x 1.5	14.6
261214	18 x 1.5	17.0
261218	20 x 1.5	17.9
261222	24 x 1.5	20.7
261226	30 x 1.5	21.9
261230	40 x 1.5	24.3
261234	50 x 1.5	27.4
261238	61 x 1.5	29.1
261242	80 x 1.5	34.8
261246	3 x 2.5	10.6
261250	4 x 2.5	11.6
261254	5 x 2.5	13.2
261258	7 x 2.5	13.7
261262	10 x 2.5	18.5
261266	12 x 2.5	16.0

CABLES

Silicon cable, flexible with galvanised steel wire outside cover

Test voltage 2000V, -50° C / +180° C



Cat.No.	mm2	Overall diameter
261304	3 x 1.5	9.8

Marine switchboard wire with PVC outside cover

Type VUV, rated voltage 600/1000V. Test voltage 2500, class CS85 (85°).

Approved by the major shipping classification bureaus



Cat.No.	mm2	Overall diameter
260018	1.5	3.8
260020	2.5	4.7

Marine cable with halogen free outer sheath

Rated voltage 600/1000V, flame retardant, 100° C. Main uses and features:
rigid cables for installation in ships with special performances of non fire
propagation and low emission of smoke and fumes.

Approved by the major shipping classification bureaus



Cat.No.	mm2	Overall diameter
260023	1 x 4	5.9
260024	1 x 6	9.0
262518	2 x 1.5	8.5
262519	2 x 2.5	9.5
262525	3 x 1.5	8.5
262527	3 x 2.5	10
262530	3 x 4	11.5
262533	3 x 6	12.5
262540	4 x 1.5	10
262541	4 x 2.5	11
262544	5 x 1.5	11
262556	7 x 1.5	13

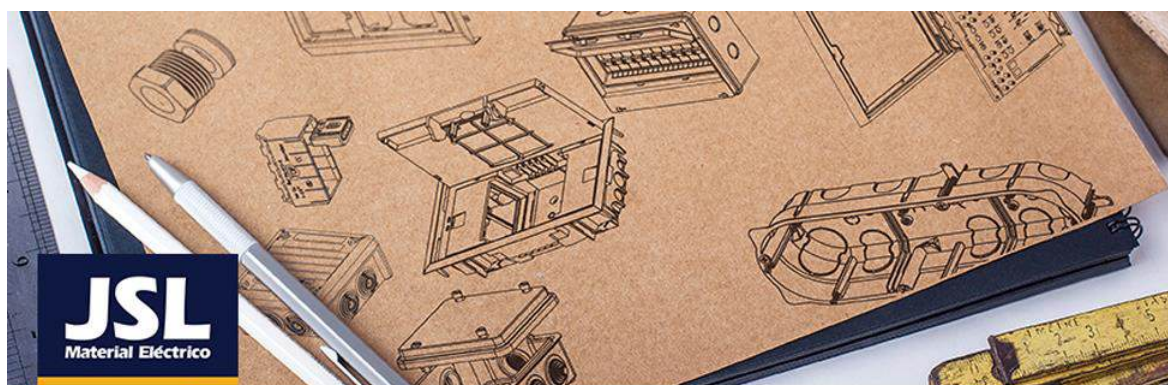
CABLES

Marine cable with halogen free outer sheath

Rated voltage 600/1000V flame retardant, 100° C. Main uses and features:
rigid copper screened cables for installation in ships with special fire
propagation and low emission of smoke and fumes.

Approved by the major shipping classification bureaus

	Cat.No.	mm2	Overall diameter
	262711	2 x 1.5	9.5
	262718	2 x 2.5	10
	262720	3 x 1.5	9.5
	262722	3 x 2.5	11
	262724	3 x 4	12
	262725	3 x 6	13.5
	262726	3 x 10	16.5
	262730	3 x 16	18.5
	262734	3 x 25	22.5
	262736	3 x 35	25
	262778	3 x 70	33
	262737	4 x 1.5	10.5
	262738	4 x 2.5	12
	262739	4 x 4	13
	262740	4 x 6	15
	262749	7 x 1.5	12.5
	262753	10 x 1.5	16.5
	262755	12 x 1.5	17
	262760	16 x 1.5	18.5
	262763	19 x 1.5	20



CABLE GLANDS

Cable glands, brass, nickel plated IP68

Cat.No.	Thread	For cable	Thread length
282104	R 3/8 "	5 – 10 mm	6 mm
282110	R 1/2 "	6 – 12 mm	7 mm
282120	R 3/4 "	11 – 17 mm	7 mm
282126	R 1	15 – 21 mm	7 mm

Cable glands, brass, nickel plated IP54



Cat.No.	Thread	For cable	Thread length
282134	PG 7	4 – 6.5 mm	4 mm
282137	PG 9	6.5 – 9.5 mm	5 mm
282140	PG 11	10 – 12 mm	6 mm
282144	PG 13.5	12 – 14 mm	7 mm
282148	PG 16	14 – 16 mm	7 mm
282152	PG 21	17 – 21 mm	7 mm
282156	PG 29	22 – 28 mm	8 mm
282160	PG 36	29 – 35 mm	9 mm
282164	PG 42	36 – 41 mm	10 mm

Lock nuts, brass, nickel plated



Cat.No.	Thread
282206	R 3/8 "
282208	R 1/2 "
282212	R 3/4 "
282214	R 1
282215	PG 7
282217	PG 9
282216	PG 11
282218	PG 13.5
282220	PG 16
282222	PG 21
282224	PG 29
282226	PG 36
282228	PG 42

Cable glands, polyamide (PA), IP65



Cat.No.	Thread	For cable	Thread length
282306	PG 7	3.5 – 6 mm	6 mm
282310	PG 9	4.5 – 7 mm	6 mm
282314	PG 11	6 – 9 mm	6 mm
282318	PG 13.5	9 – 12 mm	7 mm
282322	PG 16	11 – 14 mm	7 mm
282326	PG 21	14 – 18 mm	7 mm
282330	PG 29	18 – 25 mm	8 mm
282334	PG 36	25 – 32 mm	9 mm
282338	PG 42	30 – 38 mm	10 mm

CABLE GLANDS

Cable glands, polyamide (PA), IP68



Cat.No.	Thread	For cable	Thread length
282340	PG 7	3.5 – 6 mm	6 mm
282341	PG 9	4.5 – 7 mm	6 mm
282342	PG 11	6 – 9 mm	6 mm
282343	PG 13.5	9 – 12 mm	7 mm
282344	PG 16	11 – 14 mm	7 mm
282345	PG 21	14 – 18 mm	7 mm
282346	PG 29	18 – 25 mm	8 mm
282347	PG 36	25 – 32 mm	9 mm
282348	PG 42	30 – 38 mm	10 mm

Lock nuts, polyamide



Cat.No.	Thread
282352	PG 7
282354	PG 9
282356	PG 11
282358	PG 13.5
282360	PG 16
282362	PG 21
282368	PG 29
282370	PG 36
282372	PG 42

Plugs, brass, nickel plated



Cat.No.	Thread
282442	PG 16

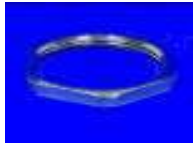
Cable glands, brass, nickel plated IP54



Cat.No.	Thread	For cable	Thread length
282701	M12 x 1.5	5 – 7 mm	5 mm
282705	M16 x 1.5	6 – 8 mm	5 mm
282714	M20 x 1.5	3 – 14 mm	6 mm
282718	M25 x 1.5	15 – 17 mm	7 mm
282723	M32 x 1.5	24 – 26 mm	8 mm
282728	M40 x 1.5	33 – 35 mm	8 mm
282733	M50 x 1.5	41 – 43 mm	9 mm
282738	M63 x 1.5	45 – 47 mm	10 mm
282750	M12 x 1.5	5 – 7 mm	10 mm
282755	M16 x 1.5	6 – 8 mm	10 mm
282764	M20 x 1.5	3 – 14 mm	10 mm
282769	M25 x 1.5	15 – 17 mm	12 mm
282774	M32 x 1.5	24 – 26 mm	12 mm
282779	M40 x 1.5	33 – 35 mm	14 mm
282784	M50 x 1.5	41 – 43 mm	14 mm
282789	M63 x 1.5	45 – 47 mm	14 mm

CABLE GLANDS

Lock nuts, brass, nickel plated



Cat.No.	Thread
282801	M12 x 1.5
282803	M16 x 1.5
282805	M20 x 1.5
282807	M25 x 1.5
282809	M32 x 1.5
282811	M40 x 1.5
282813	M50 x 1.5
282815	M63 x 1.5

Cable glands, polyamide (PA), IP68



Cat.No.	Thread	For cable	Thread length
282902	M12 x 1.5	3.5 – 6.5 mm	8 mm
282904	M16 x 1.5	5 – 10 mm	8 mm
282906	M20 x 1.5	7 – 13 mm	9 mm
282908	M25 x 1.5	12 – 18 mm	11 mm
282910	M32 x 1.5	17 – 25 mm	11 mm
282912	M40 x 1.5	20 – 29 mm	18 mm
282914	M50 x 1.5	30 – 38 mm	18 mm
282916	M63 x 1.5	34 – 44 mm	18 mm

Lock nuts, polyamide (PA)



Cat.No.	Thread
282925	M12 x 1.5
282926	M16 x 1.5
282927	M20 x 1.5
282929	M25 x 1.5
282931	M32 x 1.5
282933	M40 x 1.5
282935	M50 x 1.5
282937	M63 x 1.5

CABLE MOUNTING MATERIAL

Cable clips, PVC with nail, in boxes of 100 pcs



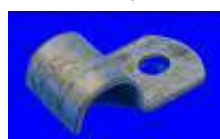
Cat.No.	For cable / mm	Bag	
302304	3.5	100 pcs	
302308	5	100 pcs	
302312	6	100 pcs	for flat cable
302316	7	100 pcs	
302320	9	100 pcs	
302324	11	100 pcs	
302352	2.5 – 4	100 pcs	
302356	5 – 7	100 pcs	
302360	8 – 10	100 pcs	
302364	11 – 15	100 pcs	
302368	16 – 19	50 pcs	
302372	23 – 29	50 pcs	

Cable saddles, PVC



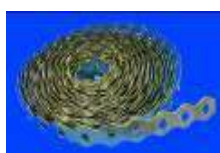
Cat.No.	For cable / mm
302410	5 – 14
302414	15 – 29

Cable saddles, metal with 7 mm hole



Cat.No.	For cable / mm
302480	9 – 10
302484	11 – 12
302486	13 – 14
302496	Pressed steel saddle 5/8" for tube

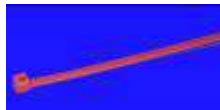
Assembling strap, rolls of 10 meters



Cat.No.	Description	Width / mm
302560	Galvanized	12
302564	Galvanized	17
302572	Copper	12
302576	Copper	17
302584	PVC coated	12
302588	PVC coated	17

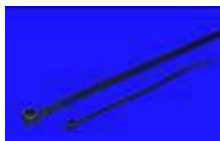
CABLE MOUNTING MATERIAL

Cable ties, selflocking, white



Cat.No.	Dimensions	Quantity
302620	100 x 2.5 mm	bag of 100 pcs
302628	200 x 2.5 mm	bag of 100 pcs
302636	140 x 3.6 mm	bag of 100 pcs
302644	200 x 3.6 mm	bag of 100 pcs
302652	160 x 4.8 mm	bag of 100 pcs
302660	200 x 4.8 mm	bag of 100 pcs
302668	300 x 4.8 mm	bag of 100 pcs
302676	368 x 4.8 mm	bag of 100 pcs
302684	368 x 7.6 mm	bag of 100 pcs
302687	360 x 4.8 mm green	per piece
302689	360 x 4.8 mm red	per piece
302692	775 x 9.0 mm	per piece
302794	Fastening tool for same	

Cable ties, selflocking, black



Cat.No.	Dimensions	Quantity
302720	100 x 2.5 mm	bag of 100 pcs
302728	200 x 2.5 mm	bag of 100 pcs
302736	140 x 3.6 mm	bag of 100 pcs
302744	200 x 3.6 mm	bag of 100 pcs
302752	160 x 4.8 mm	bag of 100 pcs
302760	200 x 4.8 mm	bag of 100 pcs
302768	300 x 4.8 mm	bag of 100 pcs
302776	368 x 4.8 mm	bag of 100 pcs
302784	368 x 7.6 mm	bag of 100 pcs
302792	775 x 9.0 mm	per piece
302794	Fastening tool for same	

CABLE MOUNTING MATERIAL

Cable ties, Thomas & Betts with steel locking barb, black, weather and UV resistant



Cat.No.	Dimensions	Type	Quantity (small)
302795	92 x 2.4 mm	TY523MXR	bag of 100 pcs
302796	203 x 2.4 mm	TY5232MXR	bag of 100 pcs
302797	104 x 3.6 mm	TY524MXR	bag of 100 pcs
302798	208 x 3.6 mm	TY5232MXR	bag of 100 pcs
302799	186 x 4.8 mm	TY525MXR	bag of 100 pcs
302800	295 x 4.8 mm	TY5253MXR	bag of 100 pcs
302801	360 x 4.8 mm	TY528MXR	bag of 100 pcs
302802	340 x 7.0 mm	TY527MXR	bag of 50 pcs
302803	771 x 7.6 mm	TY529MX	bag of 50 pcs
302804	300 x 13.2 mm	TYL300MX	bag of 50 pcs
302805	546 x 13.2 mm	TYL546MX	bag of 50 pcs

CABLE MOUNTING MATERIAL

Cable tie bases, self adhesive, per piece



Cat.No.	Description
302820	19 x 19 mm for cable ties 302620...302676 and 302720...302776
302840	28 x 28 mm for cable ties 302620... 302792

Cable ties, selflocking (Colson), grey, per piece



Cat.No.	Dimensions
302909	123 x 9 mm
302910	185 x 9 mm
302914	262 x 9 mm
302918	357 x 9 mm
302926	Tool for same

Cable ties, stainless steel, per piece



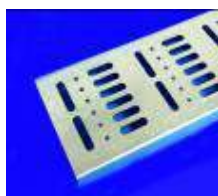
Cat.No.	Dimensions
302935	201 x 4.6 mm
302938	201 x 7.9 mm
302940	360 x 4.6 mm
302943	360 x 7.9 mm

Cable trunking PVC with cover, colour white



Cat.No.	Height	Width	Length	
300100	10mm	15mm	2 mtrs	Self adhesive
300104	10mm	20mm	2 mtrs	Self adhesive
300108	10mm	30mm	2 mtrs	Self adhesive
300112	40mm	40mm	2 mtrs	
300116	40mm	60mm	2 mtrs	
300120	60mm	60mm	2 mtrs	

Cable tray, galvanized



Cat.No.	Width	Length
300151	50 mm	3 mtrs
300153	75 mm	3 mtrs
300155	100 mm	3 mtrs
300157	150 mm	3 mtrs
300160	200 mm	3 mtrs

CABLE CONNECTION MATERIAL AND ACCESSORIES

Welding cable accessories



Cat.No.	Description
322104	Connector male and female 35/50 mm ²
322106	Connector male and female 50/70 mm ²
322108	Connector male and female 70/95 mm ²
322124	Earthing clamp 400 amp.
322130	Electrode holder 300 amp., angle/straight type
322134	Electrode holder 400 amp., angle type



Terminal connectors



Cat.No.	Description
322402	Nylon 12-pole max. 2.5 mm ²
322404	Nylon 12-pole max. 4 mm ²
322406	Nylon 12-pole max. 6 mm ²
322408	Nylon 12-pole max. 10 mm ²
322412	Nylon 12-pole max. 16 - 25 mm ²
322422	Porcelain 1-pole max. 4 mm ²
322424	Porcelain 2-pole max. 4 mm ²
322426	Porcelain 3-pole max. 4 mm ²

Alligator clips, red or black



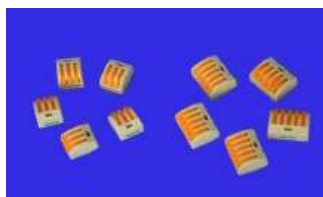
Cat.No.	Description
322480	Insulated, red
322490	Insulated, black
322510	Insulated for banana plug, red
322520	Insulated for banana plug, black



Wire connectors



Cat.No.	Description
322610	Miniature type 2-5 mm ² orange
322616	3 to 12 mm ² green
322618	Wire plug-in connector 2 x 0.2-4 mm ² in bag of 10 pcs
322620	Wire plug-in connector 3 x 0.2-4 mm ² in bag of 10 pcs
322624	Wire plug-in connector 5 x 0.2-4 mm ² in bag of 10 pcs
322628	Wire plug-in connector 1 x 0.2-4 mm ² in bag of 10 pcs



CABLE CONNECTION MATERIAL AND ACCESSORIES

Terminal blocks for TS 32 mounting



Cat.No.	Description		
322704	Terminal block	2.5 mm ²	SAK 2.5
322708	Terminal block	6 mm ²	SAK 6
322712	Terminal block	10 mm ²	SAK-S3 with glassfuse holder for 32 x 6 mm 10A
322714	Terminal block	16 mm ²	SAK 16
322718	Terminal block	50/70 mm ²	SAK 70
322720	Terminal block	95/100 mm ²	SAK 95

Accessories for terminal blocks



1

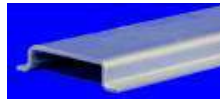


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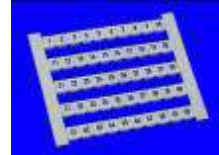
Cat.No.	Description	Fig.
322802	End barrier for SAK 2.5	1
322804	End barrier for SAK 4, SAK 6 and SAK 10	1
322806	End barrier for SAK S3	1
322808	End barrier for SAK 16	1
322812	End barrier for SAK 70	1
322814	End barrier for SAK 95	1
322854	End retainer for SAK 70 and SAK 95	2
320120	Mounting rail, width 32 mm, length 1 mtr, TS 32	3
320130	DIN rail (Omega rail) length 1 mtr, TS 35	4
322876	Markers 51 -100 for SAK	5



3



4



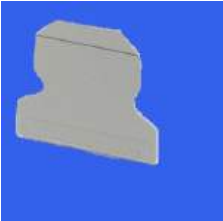
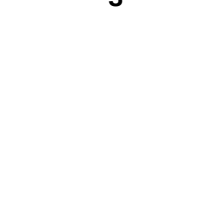
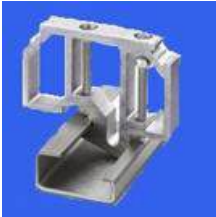
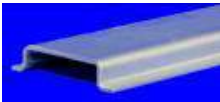
5

CABLE CONNECTION MATERIAL AND ACCESSORIES

Terminal blocks Phoenix UK series for TS/NS 32 and TS/NS 35 mounting

	Cat.No.	Description				Fig.
	322880	Terminal block	2.5 mm2	UK2.5N		1
	322882	Terminal block	4 mm2	UK5N		
	322884	Terminal block	6 mm2	UK6N		
	322886	Terminal block	10 mm2	UK10N		
	322888	Terminal block	4 mm2	UK5-HESI	for fuses max. 6,3A 20x5/25x5/30x5mm	2
	322890	Terminal block	16 mm2	UK16N		3
	322892	Terminal block	35 mm2	UK35	enclosed	
	322894	Terminal block	50 mm2	UKH50	enclosed	4
	322896	Terminal block	70 mm2	UKH70	enclosed	
	322898	Terminal block	95 mm2	UKH95	enclosed	
						
						

Accessories for terminal blocks

	Cat.No.	Description		Fig.
	322900	Endplate D-UK 2,5 for UK2,5N		1
	322902	Endplate D-UK 4/10 for UK4 – UK10		
	322904	Endplate D-UK 16 for UK16		
	322908	Partition plate ATP-UK for UK2,5N – UK10N and UK16N		2
	322912	End retainer E/UK for UK2,5 – UK35		3
	322914	End retainer E/AL-NS32 (only for NS/TS32 rail) for UKH50 – UKH240		4
	322916	End retainer E/AL-NS35 (only for NS/TS35 rail) for UKH50 – UKH240		
	320120	Mounting rail, width 32 mm, length 1 mtr, TS 32		5
	320130	DIN rail (Omega rail) length 1 mtr, TS 35		6
	322920	Markers 1-10 for UK/UKH serie		7
	322922	Markers 11-20 for UK/UKH serie		7
	322924	Markers 21-30 for UK/UKH serie		7
	322926	Markers 31-40 for UK/UKH serie		7
	322928	Markers 41-50 for UK/UKH serie		7
	322930	Markers 51-60 for UK/UKH serie		7
	322932	Markers 61-70 for UK/UKH serie		7
	322934	Markers 71-80 for UK/UKH serie		7
	322936	Markers 81-90 for UK/UKH serie		7
	322938	Markers 91-100 for UK-UKH serie		7
				4
				5
				6
				7

CABLE CONNECTION MATERIAL AND ACCESSORIES

Code markers, sheets, adhesive



Cat.No.	Description
323500	0
323501	1
323502	2
323503	3
323504	4
323505	5
323506	6
323507	7
323508	8
323509	9
323525	0/9 set of 10 sheets
323200	1 till 33 (one sheet)
323301	A
323302	B
323303	C
323304	D
323305	E
323306	F
323307	G
323308	H
323309	I
323310	J
323311	K
323312	L
323313	M
323314	N
323315	O
323316	P
323317	Q
323318	R
323319	S
323320	T
323321	U
323322	V
323323	W
323324	X
323325	Y
323326	Z
323340	A/Z set of 10 sheets
323250	A till Z (one sheet)

Marking tapes



Cat.No.	Description
323750	Marking tape dispenser with 10 rolls tape (0/9)
323760	Assortment marking tape, 10 rolls (0/9)

CABLE SHOES AND ACCESSORIES

Solderless ring terminals, non-insulated DIN 46234

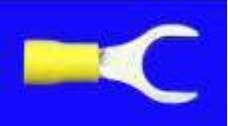
	Cat.No.	Wire range		Bolt hole diam.
	342220	1 – 2.5	mm ²	4.5 mm
	342222	4 - 6	mm ²	5.5 mm
	342224	10	mm ²	6.5 mm
	342226	16	mm ²	7.5 mm
	342228	25	mm ²	11 mm
	342230	35	mm ²	11 mm
	342232	50	mm ²	11 mm
	342234	70	mm ²	11 mm
	342236	95	mm ²	13 mm
	342238	120	mm ²	13 mm

Solderless ring terminals, insulated, in boxes

	Cat.No.	Wire range		Bolt hole diam.	Colour	Quantity
	342302	0.25 – 1.6	mm ²	M 3	red	per 100 pcs
	342304	0.25 – 1.6	mm ²	M 4	red	per 100 pcs
	342306	0.25 – 1.6	mm ²	M 5	red	per 100 pcs
	342308	0.25 – 1.6	mm ²	M 6	red	per 100 pcs
	342310	0.25 – 1.6	mm ²	M 8	red	per 100 pcs
	342312	0.25 – 1.6	mm ²	M 10	red	per 100 pcs
	342314	1 - 2.6	mm ²	M 3	blue	per 100 pcs
	342316	1 - 2.6	mm ²	M 4	blue	per 100 pcs
	342318	1 - 2.6	mm ²	M 5	blue	per 100 pcs
	342320	1 - 2.6	mm ²	M 6	blue	per 100 pcs
	342322	1 - 2.6	mm ²	M 8	blue	per 100 pcs
	342324	1 - 2.6	mm ²	M 10	blue	per 100 pcs
	342326	2.7 - 6.6	mm ²	M 4	yellow	per 50 pcs
	342328	2.7 - 6.6	mm ²	M 5	yellow	per 50 pcs
	342330	2.7 - 6.6	mm ²	M 6	yellow	per 50 pcs
	342332	2.7 - 6.6	mm ²	M 8	yellow	per 50 pcs
	342334	2.7 - 6.6	mm ²	M 10	yellow	per 50 pcs
	342336	2.7 - 6.6	mm ²	M 13	yellow	per 50 pcs

CABLE SHOES AND ACCESSORIES

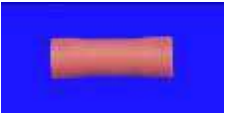
Solderless fork terminals, insulated, in boxes

	Cat.No.	Wire range	Bolt hole diam.	Colour	Quantity
	342406	0.25 – 1.6 mm ²	M 4	red round	per 100 pcs
	342408	0.25 – 1.6 mm ²	M 5	red round	per 100 pcs
	342410	0.25 – 1.6 mm ²	M 3	red straight	per 100 pcs
	342412	0.25 – 1.6 mm ²	M 4	red straight	per 100 pcs
	342420	1 - 2.6 mm ²	M 6	blue round	per 100 pcs
	342422	1 - 2.6 mm ²	M 3	blue straight	per 100 pcs
	342424	1 - 2.6 mm ²	M 4	blue straight	per 100 pcs
	342426	1 - 2.6 mm ²	M 5	blue straight	per 100 pcs
	342428	1 - 2.6 mm ²	M 4	blue straight with hook	per 100 pcs
	342430	1 - 2.6 mm ²	M 5	blue straight with hook	per 100 pcs
	342432	2.7 - 6.6 mm ²	M 4	yellow round	per 50 pcs
	342434	2.7 - 6.6 mm ²	M 5	yellow round	per 50 pcs
	342436	2.7 - 6.6 mm ²	M 6	yellow round	per 50 pcs
	342438	2.7 - 6.6 mm ²	M 8	yellow round	per 50 pcs

Solderless hook terminals, insulated, in boxes

	Cat.No.	Wire range	Bolt hole diam.	Colour	Quantity
	342502	0.25 – 1.6 mm ²	M 4	red	per 100 pcs
	342506	2.7 - 6.6 mm ²	M 5	yellow	per 50 pcs

Solderless connectors, insulated, in boxes

	Cat.No.	Wire range	Colour	Quantity
	342520	0.25 – 1.6 mm ²	red / short	per 100 pcs
	342522	0.25 – 1.6 mm ²	red / long	per 100 pcs
	342524	1 - 2.6 mm ²	blue / short	per 100 pcs
	342526	1 - 2.6 mm ²	blue / long	per 100 pcs
	342528	2.7 - 6.6 mm ²	yellow / short	per 50 pcs
	342530	2.7 - 6.6 mm ²	yellow / long	per 50 pcs

Solderless pin terminals, insulated, in boxes

	Cat.No.	Wire range	Colour	Quantity
	342560	0.25 – 1.6 mm ²	red	per 100 pcs
	342564	1 - 2.6 mm ²	blue	per 100 pcs
	342568	2.7 - 6.6 mm ²	yellow	per 50 pcs

CABLE SHOES AND ACCESSORIES

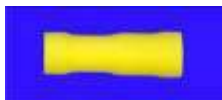
Solderless terminal plugs, insulated, in boxes



Cat.No.	Wire range	Colour
342602	0.25 – 1.6 mm ²	red
342606	1 - 2.6 mm ²	blue
342610	2.7 - 6.6 mm ²	yellow

Quantity
per 100 pcs
per 100 pcs
per 50 pcs

Solderless terminal connector plugs, insulated, in boxes



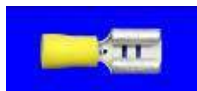
Cat.No.	Wire range	Colour
342652	0.25 – 1.6 mm ²	red
342656	1 - 2.6 mm ²	blue
342660	2.7 - 6.6 mm ²	yellow

Quantity
per 100 pcs
per 100 pcs
per 50 pcs

Female snap-ons, Insulated, in boxes



1



2



3

Cat.No.	Wire range	Colour	
342702	0.25 – 1.6 mm ²	red	/ small
342706	0.25 – 1.6 mm ²	red	/ double
342710	1 - 2.6 mm ²	blue	/ small
342714	1 - 2.6 mm ²	blue	/ double
342718	1 - 2.6 mm ²	blue	/ big
342722	2.7 - 6.6 mm ²	yellow	/ small
342726	2.7 - 6.6 mm ²	yellow	/ big
342728	2.7 - 6.6 mm ²	yellow	/ double
342764	2.7 - 6.6 mm ²	yellow	fully shrouded

Quantity	Fig.
per 100 pcs	2
per 100 pcs	1
per 100 pcs	2
per 100 pcs	1
per 100 pcs	2
per 50 pcs	2
per 50 pcs	2
per 50 pcs	1
per 50 pcs	3

Terminal connector snap-ons, insulated, in boxes



Cat.No.	Wire range	Colour
342752	0.25 – 1.6 mm ²	red
342756	1 - 2.6 mm ²	blue
342760	2.7 - 6.6 mm ²	yellow

Quantity
per 100 pcs
per 100 pcs
per 50 pcs

Bootlace ferrules, German type, in boxes of 100 pcs



Cat.No.	Wire range	Colour
342780	0.5 mm ²	white
342781	0.75 mm ²	blue
342782	1 mm ²	red
342783	1.5 mm ²	black
342784	2.5 mm ²	grey
342785	4 mm ²	orange
342786	6 mm ²	green

CABLE SHOES AND ACCESSORIES

Solderless ring tube terminals, non insulated with inspection hole,
per piece



Cat.No.	Wire range	Bolt hole
342802	10 mm ²	M 6
342803	10 mm ²	M 8
342804	10 mm ²	M 10
342805	16 mm ²	M 5
342806	16 mm ²	M 6
342807	16 mm ²	M 8
342808	16 mm ²	M 10
342809	16 mm ²	M 12
342811	25 mm ²	M 6
342812	25 mm ²	M 8
342813	25 mm ²	M 10
342815	25 mm ²	M 12
342816	25 mm ²	M 14
342817	35 mm ²	M 6
342819	35 mm ²	M 8
342820	35 mm ²	M 10
342821	35 mm ²	M 12
342823	35 mm ²	M 14
342824	50 mm ²	M 8
342825	50 mm ²	M 10
342827	50 mm ²	M 12
342828	50 mm ²	M 14
342829	50 mm ²	M 16
342831	70 mm ²	M 8
342832	70 mm ²	M 10
342833	70 mm ²	M 12
342835	70 mm ²	M 14
342836	70 mm ²	M 16
342837	95 mm ²	M 10
342839	95 mm ²	M 12
342840	95 mm ²	M 14
342841	95 mm ²	M 16
342842	120 mm ²	M 10
342843	120 mm ²	M 12
342844	120 mm ²	M 14
342845	120 mm ²	M 16

CABLE SHOES AND ACCESSORIES

Solderless connectors, per piece



Cat.No.	Wire range
342850	10 mm ²
342854	16 mm ²
342858	25 mm ²
342862	35 mm ²
342866	50 mm ²
342870	70 mm ²
342874	95 mm ²
342878	120 mm ²

Crimping tool and accessories



1

Cat.No.	Description	Fig.
342908	Crimping tool for bootlace ferrules 0.5 - 6 mm ² ratchet	1
342910	Crimping tool for cable shoes 0.75 - 6 mm ²	2
342914	Crimping tool for cable shoes 0.75 - 6 mm ² ratchet	
342920	Crimping tool for cable shoes 1.5 - 16 mm ²	
342930	Crimping tool for cable shoes 10 - 120 mm ²	3
342940	Box assorted insulated cord end terminals 0.5 – 2.5mm ² 5 compartments total 400pc, German type	4
342950	Box assorted insulated terminals and crimping tool	5
342960	Box large assortment insulated terminals and a heavy duty crimping tool	



2



3



4



5



ELECTRICIANS TOOLS AND ACCESSORIES

Temperature controlled soldering stations, 150-420°



Cat.No.	Description	Tip diam.
362310	Soldering station 220 Volt	5.3
362315	Spare tip	1.2
362317	Spare tip	1.6
362319	Spare tip	3.2



Soldering accessoires



Cat.No.	Description
362336	Resincore solder, diam. 1.5 mm rolls of 0.5 kg
362340	Resincore solder, diam. 3 mm rolls of 0.5 kg
362345	Soldering paste (Purine) cans of 50 gr
362352	Soldering liquid (S39) cans of 500 ml
362370	De-soldering gun
362378	Spare nozzles for cat.no. 362370
362384	De-solder wick (on cards)
362392	Holder with cleaning sponge for soldering irons



ELECTRICIANS TOOLS AND ACCESSORIES

Soldering irons



Cat.No.	AC/DC Volt	Watt
362112	110	15
362118	220	15
362124	110	30
362130	220	30
362136	110	60
362142	220	60
362148	220	80
362154	110	90
362160	110	100
362166	220	100
362186	110	150
362192	220	150
362198	110	200
362204	220	200
362210	110	300
362216	220	300
362222	110	400
362234	110	500
362240	220	500

Soldering guns



Cat.No.	AC Volt only	Watt
362280	110	100
362290	220	100

Cable knives and wire strippers



1



2

Cat.No.	Description	Fig.
323010	Cable knife	1
323020	Jokari cable knife	2
323030	Automatic wire stripper 0.5 - 6 mm ²	3
365460	Wire stripper, insulated	4



3



4

ELECTRICIANS TOOLS AND ACCESSORIES

Screwdrivers, flat blade

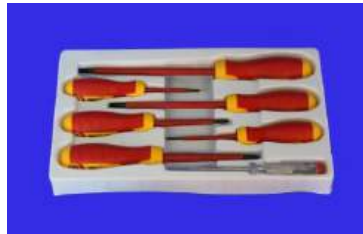
	Cat.No.	Description	
	365011	38 x 4 mm	Stubby
	365013	38 x 5 mm	Stubby
	365015	75 x 3 mm	
	365019	75 x 5 mm	
	365023	100 x 4 mm	
	365027	100 x 5 mm	
	365035	125 x 7 mm	
	365043	150 x 6 mm	
	365047	175 x 8 mm	

Screwdrivers, flat blade with gripping

	Cat.No.	Description
	365053	100 x 4.3 mm
	365055	125 x 4.3 mm
	365057	150 x 4.3 mm

Screwdrivers, flat blade VDE 1000V

	Cat.No.	Description
	365075	75 x 2.5 mm
	365079	100 x 4 mm
	365085	125 x 5.5 mm
	365087	150 x 6.5 mm
	365091	175 x 8 mm
	365100	Set electricians flat blade/Phillips screwdrivers



Offset screwdrivers, flat blade

	Cat.No.	Description
	365060	125 x 5.5 mm
	365062	125 x 6.5 mm
	365064	150 x 8 mm

ELECTRICIANS TOOLS AND ACCESSORIES

Screwdrivers, Phillips



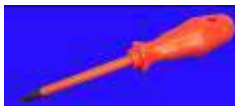
Cat.No.	Description
365109	38 mm x No. 1 Stubby
365111	38 mm x No. 2 Stubby
365113	60 mm x No. 0
365117	75 mm x No. 1
365118	100 mm x No. 2
365119	150 mm x No. 3
365123	200 mm x No. 4

Screwdrivers, Phillips with gripping



Cat.No.	Description
365129	125 mm x No. 0
365131	175 mm x No. 2

Screwdrivers, Phillips, VDE 1000 V



Cat.No.	Description
365137	60 mm x No. 0
365141	80 mm x No. 1
365145	100 mm x No. 2
365149	150 mm x No. 3
365153	200 mm x No. 4
365100	Set electricians flat blade/Phillips screwdrivers



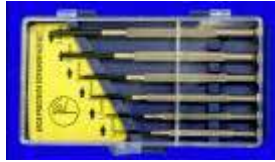
Offset screwdrivers, Phillips



Cat.No.	Description
365110	100 mm x No. 1 and 2
365112	150 mm x No. 3 and 4

ELECTRICIANS TOOLS AND ACCESSORIES

Sets precision screwdrivers



Cat.No.
365320

Description
flat blade/Phillips

Trimming knives



Cat.No.
368359
368361
368363

Description
fixed blade
retractable blade
spare blades straight Stanley
991 set of 5 pcs 51x19mm for
368359 and 368361



Files



Cat.No.
368370

Description
files, 140 mm set of 10 pcs

Tape rules



Cat.No.
368385
368388

Description
2 mtrs
8 mtrs

Vernier calipers

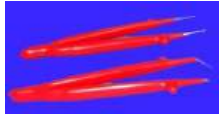


Cat.No.
368393

Description
150 mm

ELECTRICIANS TOOLS AND ACCESSORIES

Tweezers, insulated VDE 1000V



Cat.No.	Description
368351	straight
368354	curved

Pliers



1



2



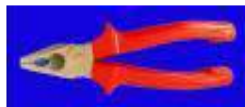
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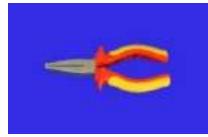


8

Cat.No.	Description	Fig.
365402	Flat nose pliers 160 mm	1
365406	Round nose pliers 160 mm	2
365410	Long nose pliers straight 160 mm	3
365414	Long nose pliers bent 200 mm	4
365422	Diagonal cutting pliers 160 mm	5
365426	Diagonal cutting pliers 180 mm	5
365430	End cutters 160 mm	6
365434	Side-cutting pliers 160 mm	7
365438	Side-cutting pliers 180 mm	7
365442	Side-cutting pliers 200 mm	7
365446	Multigrip pliers 250 mm	8

ELECTRICIANS TOOLS AND ACCESSORIES

Pliers, insulated VDE 1000V



1

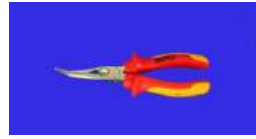
Cat.No.	Description	Fig.
365461	Flat nose pliers 160 mm	1
365465	Round nose pliers 160 mm	2
365469	Long nose pliers straight 160 mm	3
365471	Long nose pliers straight 200 mm	3
365473	Long nose pliers bent 200 mm	4
365477	Diagonal cutting pliers 160 mm	5
365485	Side-cutting pliers 160 mm	6
365489	Side-cutting pliers 200 mm	6
365493	Multigrip pliers 250 mm	7



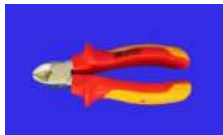
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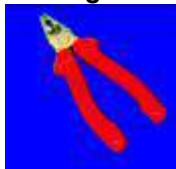
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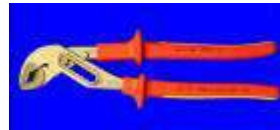
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6



7

Hacksaws



Cat.No.	Description
365523	Junior hacksaw frame (150 mm)
365527	Spare blades for junior hacksaw (150 mm)
365532	Hacksaw frame adjustable (250mm – 300 mm)
365536	Spare blades for adjustable hacksaw (300 mm)



Hole saws



Cat.No.	Description
368410	16 mm
368413	20 mm
368416	25 mm
368419	30 mm
368425	hole saw holder



ELECTRICIANS TOOLS AND ACCESSORIES

Hexagon allen screwdrivers with T-grip



Cat.No.	Description			
365290	2.5	x	110	mm
365293	3	x	120	mm
365296	4	x	135	mm
365299	5	x	150	mm
365302	6	x	175	mm
365305	8	x	200	mm

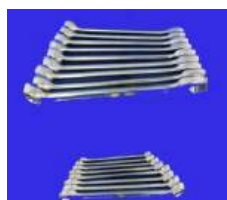
Hexagon allen wrenches



Cat.No.	Description	
365549	1.5	mm
365551	2	mm
365553	2.5	mm
365555	3	mm
365557	3.5	mm
365559	4	mm
365561	4.5	mm
365563	5	mm
365565	5.5	mm
365567	6	mm
365569	7	mm
365571	8	mm
365573	9	mm
365575	10	mm
365577	11	mm
365579	12	mm
365581	14	mm
365583	17	mm
365585	19	mm
365587	22	mm
365598	Set 1.5-10 mm	

ELECTRICIANS TOOLS AND ACCESSORIES

Combination spanners



Cat.No.	Description
368451	6 mm
368453	7 mm
368455	8 mm
368456	9 mm
368457	10 mm
368458	11 mm
368461	12 mm
368463	13 mm
368465	14 mm
368467	15 mm
368469	16 mm
368471	17 mm
368473	18 mm
368475	19 mm
368477	20 mm
368479	21 mm
368481	22 mm
368483	23 mm
368485	24 mm
368487	25 mm
368498	Combination spanner set 6-22 mm, 17 pcs

Adjustable wrenches



Cat.No.	Description
368509	6"
368513	8"
368517	10"

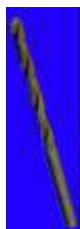
Bearing pullers



Cat.No.		Description
368552	2-legs	200 x 150 mm
368554	3-legs	250 x 220 mm

ELECTRICIANS TOOLS AND ACCESSORIES

Twist drills, HSS, straight shank



Cat.No.	Description
368585	0.5 mm
368587	1 mm
368589	1.5 mm
368591	1.6 mm
368593	2 mm
368595	2.4 mm
368597	2.5 mm
368599	3 mm
368601	3.2 mm
368603	3.5 mm
368605	4 mm
368607	4.5 mm
368609	4.8 mm
368611	5 mm
368613	5.5 mm
368615	6 mm
368617	6.4 mm
368619	6.5 mm
368621	7 mm
368623	7.5 mm
368625	8 mm
368627	8.5 mm
368629	9 mm
368631	9.5 mm
368633	10 mm
368635	10.5 mm
368637	11 mm
368639	11.5 mm
368641	12 mm
368643	12.5 mm
368645	13 mm
368647	13.5 mm
368659	Set HSS twist drills 1.5 - 6.5 mm x 0.5 13 pcs
368665	Set HSS twist drills 1 - 10 mm x 0.5 19 pcs

ELECTRICIANS TOOLS AND ACCESSORIES

Set handtaps



Cat.No.	Description
368690	Tap and die set in box, M3-M12 HSS 32 pieces
365611	PG 11
365614	PG 13.5
365617	PG 16
365620	PG 21
365623	M 12 x 1.5
365630	M 16 x 1.5
365633	M 20 x 1.5
365636	M 25 x 1.5
365639	M 32 x 1.5
365642	M 40 x 1.5
365645	M 50 x 1.5
365648	M 63 x 1.5

Electric tools



Cat.No.	Description		Volts
368006	Electric drill	up to 10 mm	110
368011	Electric drill	up to 13 mm	110
368024	Cordless drill/driver 9.6V		110
368037	Bench grinder	150 mm	110
368059	Jig saw		110
368070	Angle grinder	178 mm	110
368090	Electric drill	up to 10 mm	220
368096	Electric drill	up to 13 mm	220
368105	Cordless drill/driver 18V	up to 10 mm	220
368114	Bench grinder	150 mm	220
368123	Jig saw		220
368135	Angle grinder	125 mm	220
368145	Power tool cord, neoprene 2 x 1.5 mm ² with Schuko plug, length 5 mtr		



ELECTRICIANS TOOLS AND ACCESSORIES

Electric tools (continuation)



Toolbox



Cat.No.	Description
368301	Tool bag Polypropylene 50x30x28cm Stanley Fatmax

Storage box



Cat.No.	Description
368337	Storage box with 18 compartments

WIRING ACCESSORIES

Cabin switches, surface mounting

Cat.No.	Description	Fig.
382110	Single-pole on/off 10A	1
382116	Double-pole on/off 10A	1
382122	Two-way 10A	1
382128	Two-circuit 10A	2
382160	Double-pole on/off 5A (Japanese)	3
382166	Double-pole on/off 10A (Japanese)	3



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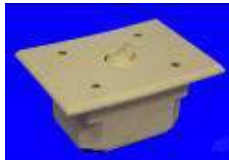
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Cabin switches, flush mounting with cover plate

Cat.No.	Description	Fig.
382210	Single-pole on/off 10A	1
382216	Double-pole on/off 10A	1
382242	Double-pole on/off 10A (Japanese)	2
382246	Double-pole on/off 10A double (Japanese)	3



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Dimmer switches

Cat.No.	Description	Fig.
382320	Surface mounting 110V AC/DC 60W (chartroom dimmer)	1
382328	Flush mounting 110V AC/DC 60W (chartroom dimmer)	2
382338	Surface mounting 220V AC/DC 60W (chartroom dimmer)	1
382346	Flush mounting 220V AC/DC 60W (chartroom dimmer)	2
382360	Cord dimmer 220-240V 50-60Hz black for 4-25W LED or 4-150W halogen/incandescent	3
382368	Surface mounting 220V AC 200W max.	4
382376	Flush mounting 220V AC 400W max.	



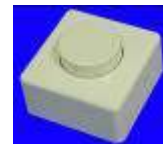
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WIRING ACCESSORIES

Rotary switches (according to DIN standard) base mounting,
250V AC/DC, 16A



Cat.No.	Description
382452	Double-pole on/off pos. 0-1-0-1 type P16 A 1/2
382454	Three-pole on/off pos. 0-1-0-1 type P16 A 1/3

Rotary switches, base mounting 440VAC



Cat.No.	A.	Type	Pos.	Poles	Dim. x
382651	16	on/off	0-1-0-1	1	18
382655	25	on/off	0-1-0-1	1	18
382659	40	on/off	0-1-0-1	1	20
382663	63	on/off	0-1-0-1	1	30
382667	16	on/off	0-1-0-1	2	24
382671	25	on/off	0-1-0-1	2	24
382675	40	on/off	0-1-0-1	2	30
382679	63	on/off	0-1-0-1	2	40
382683	16	on/off	0-1-0-1	3	30
382687	25	on/off	0-1-0-1	3	30
382691	40	on/off	0-1-0-1	3	40
382695	63	on/off	0-1-0-1	3	50
382699	16	on/off	0-1-0-1	4	36
382703	25	on/off	0-1-0-1	4	36
382707	40	on/off	0-1-0-1	4	50
382711	63	on/off	0-1-0-1	4	60
382715	16	c/over	0-1-0-2	1	24
382719	25	c/over	0-1-0-2	1	24
382723	40	c/over	0-1-0-2	1	30
382727	63	c/over	0-1-0-2	1	40
382731	16	c/over	0-1-0-2	2	36
382735	25	c/over	0-1-0-2	2	36
382739	40	c/over	0-1-0-2	2	70
382743	63	c/over	0-1-0-2	2	70
382747	16	c/over	0-1-0-2	3	48
382751	25	c/over	0-1-0-2	3	48
382755	40	c/over	0-1-0-2	3	90
382759	63	c/over	0-1-0-2	3	90
382763	16	c/over	0-1-0-2	4	60
382767	40	c/over	0-1-0-2	4	110
382771	16	c/over	1-2-1-2	1	18
382775	25	c/over	1-2-1-2	1	18
382779	40	c/over	1-2-1-2	1	30
382783	63	c/over	1-2-1-2	1	30
382787	16	c/over	1-2-1-2	2	30

WIRING ACCESSORIES

Rotary switches, base mounting 440VAC (continuation)



Cat.No.	A.	Type	Pos.	Poles	Dim. x
382791	25	c/over	1-2-1-2	2	30
382795	40	c/over	1-2-1-2	2	70
382799	63	c/over	1-2-1-2	2	50
382803	16	c/over	1-2-1-2	3	42
382807	25	c/over	1-2-1-2	3	42
382811	40	c/over	1-2-1-2	3	90
382815	63	c/over	1-2-1-2	3	70
382819	16	c/over	1-2-1-2	4	54
382823	25	c/over	1-2-1-2	4	54
382827	40	c/over	1-2-1-2	4	110
382831	63	c/over	1-2-1-2	4	80

Rotary switches, panel mounting 440VAC



Cat.No.	A.	Type	Pos.	Poles	Dim. x
382951	16	on/off	0-1-0-1	1	12
382955	25	on/off	0-1-0-1	1	12
382959	40	on/off	0-1-0-1	1	20
382963	63	on/off	0-1-0-1	1	30
382967	16	on/off	0-1-0-1	2	18
382971	25	on/off	0-1-0-1	2	18
382975	40	on/off	0-1-0-1	2	30
382979	63	on/off	0-1-0-1	2	40
382983	16	on/off	0-1-0-1	3	24
382987	25	on/off	0-1-0-1	3	24
382991	40	on/off	0-1-0-1	3	40
382995	63	on/off	0-1-0-1	3	50
382999	16	on/off	0-1-0-1	4	30
383003	25	on/off	0-1-0-1	4	30
383007	40	on/off	0-1-0-1	4	50
383011	63	on/off	0-1-0-1	4	60
383015	16	c/over	0-1-0-2	1	18
383019	25	c/over	0-1-0-2	1	18
383023	40	c/over	0-1-0-2	1	30
383027	63	c/over	0-1-0-2	1	40
383031	16	c/over	0-1-0-2	2	30
383035	25	c/over	0-1-0-2	2	30
383039	40	c/over	0-1-0-2	2	60
383043	63	c/over	0-1-0-2	2	70
383047	16	c/over	0-1-0-2	3	42
383051	25	c/over	0-1-0-2	3	42
383055	40	c/over	0-1-0-2	3	80
383059	60	c/over	0-1-0-2	3	90
383063	16	c/over	0-1-0-2	4	54
383067	40	c/over	0-1-0-2	4	54

WIRING ACCESSORIES

Rotary switches, panel mounting 440VAC (continuation)



Cat.No.	A.	Type	Pos.	Poles	Dim. x
383071	16	c/over	1-2-1-2	1	18
383075	25	c/over	1-2-1-2	1	18
383079	40	c/over	1-2-1-2	1	30
383083	60	c/over	1-2-1-2	1	30
383087	16	c/over	1-2-1-2	2	30
383091	25	c/over	1-2-1-2	2	30
383095	40	c/over	1-2-1-2	2	60
383099	60	c/over	1-2-1-2	2	50
383103	16	c/over	1-2-1-2	3	42
383107	25	c/over	1-2-1-2	3	42
383111	40	c/over	1-2-1-2	3	80
383115	60	c/over	1-2-1-2	3	70
383119	16	c/over	1-2-1-2	4	54
383123	25	c/over	1-2-1-2	4	54
383127	40	c/over	1-2-1-2	4	100
383131	60	c/over	1-2-1-2	4	80

Rotary switches for cooking ranges (pos. 0-1-2-3)



1

Cat.No.	Description	Type	Fig.
383320	Base mounting, 16A 500VAC 380VDC	VBC 125J	
383334	Base mounting, 16A 440VAC 250VDC	BC 125J	
383348	Panel mounting, 16A 440VAC	RP 125J 90	
383378	Knobs for old type switch (K383370)	252 BM	
383388	Heater switch, 25A new type for obsolete (for Beha cooking range)	252 BM E43-24216-000	1
383390	Heater switch, 25/32A DP (for EGO cooking range)	E43-24232-000	1
383430	Base mounting, 40A 380VAC 250VDC	P 40 A 9/2	

Cam on/off switches, 400V in polycarbonate enclosure IP65



Cat.No.	Description
383520	Three-pole 25A
383530	Three-pole 40A

WIRING ACCESSORIES

Miniature switches, panel mounting

	Cat.No.	Poles	Position	Ampere	Fig.
 1	383562	1	on/off	2	1
	383570	2	on/off	2	1
	383578	2	on/off	10	2
	383586	1	c/over	2	1
	383594	2	c/over	2	1
 2	383620	1	on/off	for Aqua Signal berth lights	3
 3					

Miniature pushbutton switches

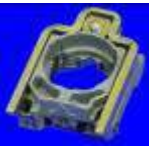
	Cat.No.	Description	Fig.
 1	383710	Single-pole 2A	1
	383720	Double-pole, Japanese 6A	2
	383736	Bellpush for low-tension current	3
	383754	Cord pushbutton switch, single-pole	4
 2			
 3			
 4			

Rotary and pushbutton switches, bore 22 mm diam. make Telemecanique

	Cat.No.	Description	Positions	Colour	Type	Fig.
 1	383780	Rotary switch 1NO, complete set	0-1	black	XB4BD21	1
	383781	Rotary switch 1NO+1NC, complete set	0-1	black	XB4BD25	1
	383782	Push button 1NO, complete set		green	XB4BA31	2
	383783	Rotary switch 2NO, complete set	1-0-2	black	XB4BD33	1
	383784	Push button 1NC, complete set		red	XB4BA42	3
	383785	Rotary switch 2NO, complete set, "spring return"	1-0-2	black	XB4BD53	1
	383787	Head selector switch	0-1	black	ZB4BD2	4
	383788	Head selector switch	1-0-2	black	ZB4BD3	4
	383789	Head selector switch, "spring return"	0-1	black	ZB4BD4	4
	383794	Head key switch	1-0-2		ZB4BG3	5
 2						
 3						
 4						
 5						

WIRING ACCESSORIES

Pushbutton switches with momentary contact, bore 22 mm diam, make Telemecanique

	Cat.No.	Description	Type	Fig.
 1	384101	Mounting base 1NO	ZB4BZ101	1
	384102	Mounting base 1NC	ZB4BZ102	1
	384103	Mounting base 2NO	ZB4BZ103	1
	384104	Mounting base 2NC	ZB4BZ104	1
	384105	Mounting base 1NO + 1NC	ZB4BZ105	1
 2	384111	Mounting base	ZB4BZ009	2
	384112	Contact block 1NO	ZBE101	
	384113	Contact block 1NC	ZBE102	
	384115	Contact block 2NO	ZBE203	
	384117	Contact block 2NC	ZBE204	
 3	384119	Contact block 1NO + 1NC	ZBE205	3
	384121	Button white	ZB4BA1	4
	384123	Button green	ZB4BA3	4
	384125	Button red	ZB4BA4	4
	384126	Button yellow	ZB4BA5	4
 4	384127	Button blue	ZB4BA6	4
	384129	Button grey	ZB4BA8	4
	384130	Button black	ZB4BA2	4
	384131	Transparent boot	ZBP0	5
	384151	Adapter for hole diam. 30 mm	ZB2BZ4	6
		 5		
		 6		

Illuminated pushbutton switches with momentary contact, bore 22 mm diam, make Telemecanique

	Cat.No.	Description	Type	Fig.
 1	384135	Mounting base, contact block 1 NO and lampholder Ba9s for direct connection <250V 2.4W	ZB4BW061	1
	384136	Mounting base, contact block 1 NC and lampholder Ba9s for direct connection <250V 2.4W	ZB4BW062	1
	384137	Mounting base, contact block 2 NC and lampholder Ba9s for direct connection <250V 2.4W	ZB4BW063	1
	384138	Mounting base, contact block 1NO + 1NC and lampholder Ba9s for direct connection <250V 2.4W	ZB4BW065	1
 2	384139	Mounting base, transformer 110/120V 6V with pilot lamp and contact block 1 NO	ZB4BW031	2
	384140	Mounting base, transformer 110/120V 6V with pilot lamp and contact block 1 NO + 1 NC	ZB4BW035	2
	384141	Mounting base, transformer 230/240V 6V with pilot lamp and contact block 1 NO	ZB4BW041	2
	384142	Mounting base, transformer 230/240V 6V with pilot lamp and contact block 1 NO + 1 NC	ZB4BW045	2
	384143	Mounting base, transformer 400V (380V) 6V with pilot lamp and contact block 1 NO	ZB4BW051	2
	384144	Mounting base, transformer 400V (380V) 6V with pilot lamp and contact block 1 NO + 1 NC	ZB4BW055	2

WIRING ACCESSORIES

Illuminated pushbutton switches with momentary contact, bore 22 mm diam, make Telemecanique (continuation)

	Cat.No.	Description	Type	Fig.
	384145	Button white	ZB4BW11	1
	384146	Button green	ZB4BW13	1
	384147	Button red	ZB4BW14	1
	384148	Button amber	ZB4BW15	1
	384149	Button blue	ZB4BW16	1
	384150	Button clear	ZB4BW17	1
	384151	Adaptor for hole diam. 30 mm	ZB2BZ4	2
	384152	Button green 1NO + 1NC, complete set, direct supply 250V max., BA9s, "spring return"	XB4BW3365	3
	384153	Button red 1NO + 1NC, complete set, direct supply 250V max., BA9s, "spring return"	XB4BW3465	4
	384131	Transparent boot	ZBP0	5
1				
	2			
	3			
	4			
	5			

LED Illuminated pushbutton switches with momentary contact, bore 22 mm diam, make Telemecanique

	Cat.No.	Description	Type	Fig.
	384330	Mounting base, contact block 1 NO + 1NC with LED 24V	ZB4BW0B15	1
	384332	Mounting base, contact block 1 NO + 1NC with LED 110V	ZB4BW0G15	1
	384334	Mounting base, contact block 1 NO + 1NC with LED 230v	ZB4BW0M15	1
	384340	Button white	ZB4BW313	2
	384342	Button green	ZB4BW333	2
	384344	Button red	ZB4BW343	2
	384346	Button yellow	ZB4BW353	2
	384348	Button blue	ZB4BW363	2
	384112	Contact block 1NO	ZBE101	
	384113	Contact block 2NC	ZBE102	
	384131	Transparent boot	ZBP0	3
	384151	Adapter for hole diam. 30mm	ZB2BZ4	4
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	3			
	4			

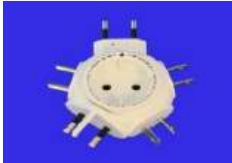
Contact blocks for Telemecanique pushbuttons ZB..... (older serie)



Cat.No.	Description	
384520	Contact block 1NO	ZB2BE101
384521	Contact block 1NC	ZB2BE102

WIRING ACCESSORIES

Adaptor plugs

	Cat.No.	Description	Fig.
	385062	With two flat pins, American to European	1
	385072	With two round pins, European to American	2
	385077	With two round pins and earth rim/hole	3
	385090	With three flat pins, British 3-pole to European two round pins and rim	4
	385094	Travel adapter 2-pole max. 3400W/250VAC	5
1			
			2
			3
			4
			5

Plugs, British



Cat.No.	Description
385120	2-pole and earth, fused, flat pins 13A

Plugs, European



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Cat.No.	Description	Fig.
385204	2-pole euro plug	1
385206	2-pole	2
385212	2-pole and earth, 'Schuko' with rim and hole earth connection	3
385218	2-pole and earth, 'Schuko' PVC	4
385224	2-pole and earth, 'Schuko' angle	5
385230	2-pole and earth, 'Schuko' rubber	6
385234	Multiway plug for 3 euro plugs	7
385237	Multiway plug for 2 euro plugs and 1 'Schuko' plug	8

WIRING ACCESSORIES

Plugs, European (continuation)

	Cat.No.	Description	Fig.
	385243	Multiway plug, 2-pole and earth, 'Schuko'	9
	385250	Multiway plug, 2-pole and earth, 'Schuko' rubber	10
	385252	Plug-in switch 16A single 'Schuko'	11
	385254	Plug-in switch 16A double 'Schuko'	12
	385256	Timer switch 24H 230VAC 16A 'Schuko'	13

Plugs, Japanese/American

	Cat.No.	Description	Fig.
	385290	2 flat pins	1
	385298	Multiway plug, 2 flat pins	2
	385306	3 flat pins	3
	385314	2 flat pins and U-pin, rubber	4
	385322	2 flat pins and U-pin	5

Cable connector

Cat.No.	Description
385330	Cable connector 3-pole max. 6mm2 watertight IP68, for cable dia. 5-9mm / 9-12mm



WIRING ACCESSORIES

Control stations (IP66)

Cat.No.	Description
384620	Control station with green and red button, 1NO and 1NC contact arrangement XALD213
384640	Control station with up, 0 and down button, 1NO, 1NC and 1NO contact arrangement XALD324
384660	Control station. emergency stop with red mushroom head button 40mm, stay put turn release, contact arrangement, 1NC + 1NO XALK178E



Pendant control stations (IP65)

Cat.No.	Description
384680	Control station with -up- and -down- button (1NO + 1NC per button) for control circuits XACA281
384683	Control station with -up- -down- -left- -right- -start- and -stop- button (1NO + 1NC per button) for control circuits XACA681
384687	Control station with -up and -down- button, 2.2kW-380V for power circuits, (2 x 3NO) 12A direct switching XACB220
384689	Control station with 3 black and 3 white buttons with -up- -down- -right- -left- -forward- -reverse- button, (6 x 2NO) 12A direct switching XACB691



WIRING ACCESSORIES

Couplings, European

Cat.No.	Description	Fig.
385404	2-pole	1
385416	2-pole and earth, 'Schuko'	2
385420	2-pole and earth, 'Schuko' PVC	2
385430	2-pole and earth, 'Schuko' rubber	3
385542	appliance plug 2-pole and earth, acc. to CEE	4



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Couplings, Japanese/American

Cat.No.	Description	Fig.
385460	For 2 flat pins	1
385480	For 2 flat pins and U-pin	2



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Plugs and accessories for telephone

Cat.No.	Description	Fig.
385570	Plug 4-pole	1
385580	Receptacle 4-pole	2



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Conduit tubing



Cat.No.	Description
380110	PVC, 5/8" diam., 4 mtrs length

WIRING ACCESSORIES

Receptacles, British, for surface mounting

Cat.No.	Description	Fig.
386012	For 3 round pins, 5A surface/flush mounting	1
386024	With switch for 3 round pins 5A	2
386036	For 3 flat pins, 13A surface/flush mounting	3
386048	For 3 round pins, 15A	1
386060	With switch for 3 round pins, 15A	2



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Receptacles, European, for surface mounting

Cat.No.	Description	Fig.
386110	2-pole	1
386124	2-pole with switch	2
386138	2-pole and earth, 'Schuko'	3
386180	German type for 3 flat pins	4



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Receptacles, European, for flush mounting with cover plate

Cat.No.	Description	Fig.
386210	2-pole	1
386224	2-pole and earth, 'Schuko'	2
386229	2-pole and earth, 'Schuko' two-way	3



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WIRING ACCESSORIES

Multiway receptacles, European, for surface mounting

Cat.No.	Description
386306	Two-way 2-pole
386318	Two-way 2-pole and earth, 'Schuko'
386330	Four-way 2-pole and earth, 'Schuko'

Fig.
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Multiway receptacles, European, with cord and plug

Cat.No.	Description
386410	Three-way 2-pole with 1,5 mtr cord
386422	Four-way 2-pole with 1,5 mtr cord
386446	Three-way 2-pole and earth, 'Schuko' with 1,5 mtr cord
386450	Three-way 2-pole and earth, 'Schuko' with 5 mtr cord
386454	Three-way 2-pole and earth, 'Schuko' with switch and 1,5 mtr cord + 2 x USB port total 2100 mA
386458	Four-way 2-pole and earth, 'Schuko' with 1,5 mtr cord
386470	Six-way with switch, 2-pole and earth, 'Schuko' with 1,5 mtr cord
386472	Six-way with switch, 2-pole and earth, 'Schuko' with 5 mtr cord
386474	Multiway with switch 3 x 2-pole and earth, 'Schuko' + 6 x Euro 2-pole with 1,5 mtr cord



Cable drums



Cat.No.	Description
387014	Cable drum 4 receptacles for 2 flat and U-pin with 20 mtrs rubber cable and plug 2 flat and U-pin (American/Japanese 110V)
387015	Cable drum 4 receptacles for 2 flat and U-pin with 30 mtrs rubber cable and plug 2 flat and U-pin (American/Japanese 110V)
387016	Cable drum 4 receptacles for 2 flat and U-pin with 50 mtrs rubber cable and plug 2 flat and U-pin (American/Japanese 110V)
387023	Cable drum 4 receptacles 2-pole and earth, 'Schuko' with 25 mtrs neoprene cable and plug
387026	Cable drum 4 receptacles 2-pole and earth, 'Schuko' with 25 mtrs pvc cable and plug
387038	Cable drum 4 receptacles 2-pole and earth, 'Schuko' with 40 mtrs neoprene cable and plug
387034	Cable drum 4 receptacles 2-pole and earth, 'Schuko' with 50 mtrs neoprene cable and plug
387046	Cable drum only
387050	Cable drum 4 receptacles 2-pole and earth, 'Schuko' (without cable)

WIRING ACCESSORIES

Receptacles, Japanese/American

Cat.No.	Description	Fig.
386540	For 2 flat pins, surface mounting	1
386558	For 3 flat pins, surface mounting	2
386576	For 2 flat pins and U-pin, surface mounting	3
386594	For 2 flat pins and U-pin, flush mounting	4



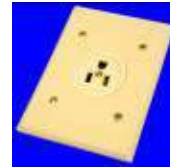
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Multiway receptacles, Japanese/American

Cat.No.	Description	Fig.
386636	Two-way for 2 flat pins, surface mounting	1
386640	Three-way for 2 flat pins, surface mounting	2
386662	Two-way for 2 flat pins and U-pin, surface mounting	3
386670	Two-way for 2 flat pins and U-pin, flush mounting	4



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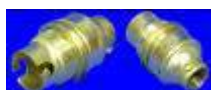


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LAMPHOLDERS

Bayonet lampholders, B15

Cat.No.	Description	Fig.
402110	B15d, brass, with M10 inside thread	1
402114	B15d, brass, with 2 mounting lugs for K692198	2
402116	B15d, brass, with backplate	3
402124	B15d, brass, with bakelite backplate	4



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Bayonet lampholders, B22

Cat.No.	Description	Fig.
402212	Brass, with M10 inside thread	1
402236	Brass, with R3/8" inside thread	2
402248	Brass, with backplate	3
402254	Brass, with 2 mounting lugs	4
402260	Brass, with 3 mounting lugs	5
402266	Porcelain, back connection	6
402278	For handlamps	7
402284	Porcelain, FB22, Japanese	8



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Mignon Edison screw lampholders

Cat.No.	Description	Fig.
402312	E10, bakelite, with backplate	1
402330	E12, bakelite, with backplate, Japanese	2
402350	E14, brass, with M10 inside thread	3
402356	E14, brass, with 2 mounting lugs	4
402362	E14, bakelite, with backplate	5



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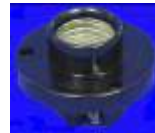


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LAMPHOLDERS

Edison screw lampholders, E26/E27

Fig.	Cat.No.	Description	Fig.
1	402408	Brass, with M10 inside thread	1
2	402412	Bakelite, with M10 inside thread	2
3	402424	Porcelain, with R3/8" inside thread	3
4	402428	Brass, with backplate	4
5	402432	Brass, with 2 mounting lugs for cat.no. 692206, 692209, 692210, 692214 and 692215	5
6	402436	Bakelite, for flat illumination cable 13 mm	6
7	402440	Porcelain, back connection	7
8	402454	For handlamps	8
9	402470	Porcelain, type FE26, Japanese	9
10	402476	Porcelain, with hole, without inside thread, type TE26, Japanese	10
11	402510	Rubber weather proof lampholder with pigtail connection, American	11
12	402518	Bakelite, with 4 mounting holes, American	12
13	402526	Bakelite, American	13



LAMPHOLDERS

Mogul Edison screw lampholders, E39/E40

Cat.No.	Description	Fig.
402610	Brass with R3/8" inside thread	1
402620	Porcelain with R3/8" inside thread	2
402630	Porcelain with R3/8" inside thread, Japanese	3
402640	Porcelain with 2 mountings lugs for Philips floodlight SNT001/003 and others	4
402650	Porcelain with brass backplate, Japanese	5



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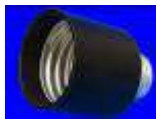
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Medium prefocus lampholders



Cat.No.	Description
402710	Isolite P28s

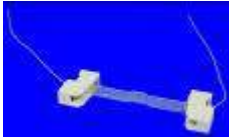
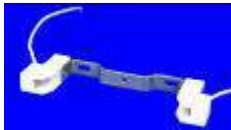
Adaptor lampholders



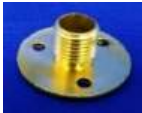
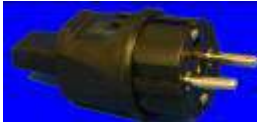
Cat.No.	Description
402760	E12-E10 for lamp E10
402798	E39-E27 for lamp E27

LAMPHOLDERS

Lampholders for halogenlamps

	Cat.No.	Description	Fig.
 1	402840	For GZ4, GX5.3, GX6.35 and GZ6.35 base, with cable	1
	402846	For GX9.5 base, with cable	2
	402848	For GY16 base, with cable	3
	402850	For G38 base	4
	402860	R7s with connection cable	5
	402870	R7s for floodlight 500 W	6
	402874	R7s for floodlight 500 W for K695200	7
	402885	R7s, with connection cable and fastening clips for K695210	8
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Accessories for lampholders and illumination cable

	Cat.No.	Description	Fig.
 1	402920	Fastening plate M10	1
	402940	Nipple M10, length 15 mm	2
	402950	Hexagonal nut M10	3
	402960	Nipple with collar M10	4
	402970	Nipple R3/8", length 20 mm	5
	402990	Rubber gasket for illumination lampholder K402436	6
	402992	European plug 2P for two core illumination cable 13 mm K260710, fits in 2P + E socket (Schuko)	7
	402994	End piece for two core illumination cable 13 mm K260710	8
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 5			
 6			
 7			
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PILOT LIGHTS

Pilot lights (Dialco), bore 7 mm, complete with lamp 28 Volt 40mA



Cat.No.	Colour
422114	green
422116	blue

Pilot lights with round lens, bore 10 mm, complete with lamp 24 Volt 1W



Cat.No.	Colour
422160	clear
422162	green
422164	red
422166	blue
422168	yellow

Pilot lights with square lens, bore 10 mm, complete with lamp 24 Volt 1W



Cat.No.	Colour
422284	clear
422286	green
422288	red
422290	blue
422292	yellow

Pilot lights, bore 22 mm, with Ba9s lampholder, with or without transformer, make Telemecanique



Cat.No.	Description	Type
422450	Mounting base with lampholder for direct connection <250V 2.4W	ZB4BV6
422451	Mounting base, lampholder, transformer 110/120V 6V with pilot lamp	ZB4BV3
422452	Mounting base, lampholder, transformer 230/240V 6V with pilot lamp	ZB4BV4
422453	Mounting base, lampholder, transformer 400 (380)V 6V with pilot lamp	ZB4BV5
422454	Mounting base, lampholder, transformer 440/480V 6V with pilot lamp	ZB4BV8
422455	Lens, white	ZB4BV01
422456	Lens, green	ZB4BV03
422457	Lens, red	ZB4BV04
422458	Lens, amber	ZB4BV05
422459	Lens, blue	ZB4BV06
422460	Lens, clear	ZB4BV07
384151	Adapter for hole diam. 30 mm	ZB2BZ4
104330	Pilotlamp 6V 180mA Ba9s 28x10 mm	



PILOT LIGHTS

LED, bore 22 mm, make Telemecanique



Cat.No.	Description	Colour	Type
384111	Mounting base		ZB4BZ009
384151	Adaptor for hole diam. 30 mm		ZB2BZ4
422470	Pilot light head, for LED	white	ZB4BV013
422472	Pilot light head, for LED	green	ZB4BV033
422474	Pilot light head, for LED	red	ZB4BV043
422476	Pilot light head, for LED	amber	ZB4BV053
422478	Pilot light head, for LED	blue	ZB4BV063

LED light blocks Telemecanique ZBV/ZAL/ZB4.. with screw clamp terminals



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Cat.No.	Description	Volt	Colour	Type	Fig
384160	Light block LED	24VAC/DC	white	ZBVB1	1
384166	Light block LED	24VAC/DC	amber	ZBVB5	1
384168	Light block LED	24VAC/DC	blue	ZBVB6	1
384170	Light block LED	230VAC	white	ZBVM1	2
384171	Light block LED	110-240VAC	white	ZBVGM1T with built-in suppressor	2
384176	Light block LED	230VAC	amber	ZBVM5	2
384180	Light block LED	230VAC	white	ZALVM1	3
384188	Light block LED	230VAC	blue	ZALVM6	3
384190	Pilot light LED	24VAC/DC	white	ZB4BVB1	4
384192	Pilot light LED	24VAC/DC	green	ZB4BVB3	4
384194	Pilot light LED	24VAC/DC	red	ZB4BVB4	4
384196	Pilot light LED	24VAC/DC	amber	ZB4BVB5	4
384198	Pilot light LED	24VAC/DC	blue	ZB4BVB6	4
384200	Pilot light LED	230VAC	white	ZB4BVM1	5

PILOT LIGHTS

LED Pilot lights Telemecanique XB4BV..



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Cat.No.	Description	Volt	Colour	Type	Fig.
422463	Pilot light LED complete set	24VAC/DC	white	XB4BVB1	1
422464	Pilot light LED complete set	24VAC/DC	green	XB4BVB3	1
422465	Pilot light LED complete set	24VAC/DC	red	XB4BVB4	1
422466	Pilot light LED complete set	24VAC/DC	orange	XB4BVB5	1
422467	Pilot light LED complete set	24VAC/DC	blue	XB4BVB6	1
422480	Pilot light LED complete set	230VAC	white	XB4BVM1	1
422481	Pilot light LED complete set	230VAC	green	XB4BVM3	1
422482	Pilot light LED complete set	230VAC	red	XB4BVM4	1
422483	Pilot light LED complete set	230VAC	orange	XB4BVM5	1
422484	Pilot light LED complete set	230VAC	blue	XB4BVM6	1
384131	Transparant boot			ZBP0	2

Mounting bases Telemecanique for XB4



Cat.No.	Description	Type
384101	Mounting base, 1NO contact	ZB4BZ101
384102	Mounting base, 1NC contact	ZB4BZ102
384103	Mounting base, 2NO contacts	ZB4BZ103
384104	Mounting base, 2NC contacts	ZB4BZ104
384105	Mounting base, 1NC/1NO contact	ZB4BZ105

Pilot lights, bore 25.3 mm, for indicator lamps 15 x 30/35 mm, E14 base



Cat.No.	Colour
422605	clear
422608	red

RELAYS AND CONTACTORS

Relays, plug-in OMRON MY4IN(S) 4-pole c/over, 5A



Cat.No.	Description
442080	24VDC
442084	24VAC
442088	110VAC
442092	230VAC
442096	Socket for MY4 relay Screw and DIN-rail mounting 35mm



Relays, plug-in, with 8 pins (2-pole c/over), 10A



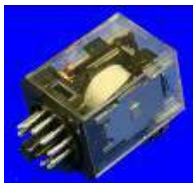
Cat.No.	Coil voltage
442108	12VDC
442112	12 VAC 50/60Hz
442116	24VDC
442120	24VAC 50/60Hz
442124	110VDC
442128	110VAC 50/60Hz
442132	220VDC
442136	220VAC 50/60Hz

Relays, plug-in, with 11 pins (3-pole c/over), 10A



Cat.No.	Coil voltage
442200	6VDC
442208	12VDC
442212	12VAC 50/60Hz
442216	24VDC
442220	24VAC 50/60Hz
442224	110 VAC 50/60Hz
442232	220 VAC 50/60Hz

Relays, plug-in, with 8 pins (2-pole c/over), for series connection with navigation lamps



Cat.No.	For lamp
442260	24V 40W DC
442272	110V 60W AC
442284	220V 65W AC

RELAYS AND CONTACTORS

Sockets for plug-in relays, surface mounting and DIN-rail



Cat.No.	Description
442410	For 8-pins relays
442420	For 11-pins relays

Relays, plug-in, make MTI



Cat.No.	Description
442460	Type EP 371, 3-pole change-over 7A, coil voltage 24VDC

Contactors, 3-pole, with 1NO and 1NC auxiliary contact, (AC3), make Telemecanique



Cat.No.	Volt	Hz	Ampere	Type
443098	24	50/60	9	LC1D09B7
443102	110	50/60	9	LC1D09F7
443106	230	50/60	9	LC1D09P7
443110	400	50/60	9	LC1D09V7
443114	440	50/60	9	LC1D09R7
443208	24	50/60	12	LC1D12B7
443212	110	50/60	12	LC1D12F7
443216	230	50/60	12	LC1D12P7
443220	400	50/60	12	LC1D12V7
443224	440	50/60	12	LC1D12R7
443268	24	50/60	18	LC1D18B7
443272	110	50/60	18	LC1D18F7
443276	230	50/60	18	LC1D18P7
443280	400	50/60	18	LC1D18V7
443284	440	50/60	18	LC1D18R7
443298	24	50/60	25	LC1D25B7
443322	110	50/60	25	LC1D25F7
443330	230	50/60	25	LC1D25P7
443334	400	50/60	25	LC1D25V7
443338	440	50/60	25	LC1D25R7

RELAYS AND CONTACTORS

Contactors, 3-pole, with 1NO and 1NC auxiliary contact (AC3),
make Telemecanique



Cat.No.	Volt	Hz	Ampere	Type
443378	24	DC	32	LC1D32BD
443382	24	50/60	32	LC1D32B7
443386	110	50/60	32	LC1D32F7
443390	230	50/60	32	LC1D32P7
443394	400	50/60	32	LC1D32V7
443398	440	50/60	32	LC1D32R7



443406	24	50/60	38	LC1D38B7
443410	230	50/60	38	LC1D38P7
443414	400	50/60	38	LC1D38V7
443447	110	50/60	40	LC1D40AF7
443451	230	50/60	40	LC1D40AP7
443455	400	50/60	40	LC1D40AV7
443459	440	50/60	40	LC1D40AR7
443507	110	50/60	50	LC1D50AF7
443511	230	50/60	50	LC1D50AP7
443515	400	50/60	50	LC1D50AV7
443519	440	50/60	50	LC1D50AR7
443567	110	50/60	65	LC1D65AF7
443571	230	50/60	65	LC1D65AP7
443575	400	50/60	65	LC1D65AV7
443579	440	50/60	65	LC1D65AR7
443580	110	50/60	80	LC1D80F7
443585	230	50/60	80	LC1D80P7
443587	400	50/60	80	LC1D80V7
443590	440	50/60	80	LC1D80R7
443599	110	50/60	95	LC1D95F7
443602	230	50/60	95	LC1D95P7
443604	400	50/60	95	LC1D95V7
443608	440	50/60	95	LC1D95R7

RELAYS AND CONTACTORS

Auxiliary relays, with 3NO and 2NC contacts, make Telemecanique



Cat.No.	Volt	Hz	Type
443704	24	DC	CAD32BD
443708	24	50/60	CAD32B7
443712	110	50/60	CAD32F7
443716	230	50/60	CAD32P7
443720	400	50/60	CAD32V7
443724	440	50/60	CAD32R7

Auxiliary relays, with 5NO contacts, make Telemecanique



Cat.No.	Volt	Hz	Type
443832	110	50/60	CAD50F7
443836	230	50/60	CAD50P7
443840	400	50/60	CAD50V7
443844	440	50/60	CAD50R7

Auxiliary relays, with 4 change over contacts, make Telemecanique



Cat.No.	Volt	Hz	Type
443850	24	DC	RXM4AB1BD without status LED
443854	24	DC	RXM4AB2BD with status LED

Coils for contactors LC1 D09/38 and auxiliary relays CAD, make Telemecanique



Cat.No.	Volt	Hz	Type
444009	24	50/60	LXD1B7
444014	110	50/60	LXD1F7
444018	230	50/60	LXD1P7
444022	400	50/60	LXD1V7
444026	440	50/60	LXD1R7

RELAYS AND CONTACTORS

Coils for contactors LC1 D40/95, make Telemecanique



Cat.No.	Volt	Hz	Type
444134	110	50/60	LX1D6F7 (LC1D80/LC1D95)
444135	110	50/60	LXD3F7 (LC1D40A...LC1D65A)
444138	230	50/60	LX1D6P7 (LC1D80/LC1D95)
444139	230	50/60	LXD3P7 (LC1D40A...LC1D65A)
444142	400	50/60	LX1D6V7 (LC1D80/LC1D95)
444143	400	50/60	LXD3V7 (LC1D40A...LC1D65A)
444146	440	50/60	LX1D6R7 (LC1D80/LC1D95)
444147	440	50/60	LXD3R7 (LC1D40A...LC1D65A)

Thermal overload relays for contactors, make Telemecanique



Cat.No.	Current setting range		Type	
444304	0.63	1 A	LRD05	LC1D09/38
444305	1	1.7 A	LRD06	LC1D09/38
444314	1.6	2.5 A	LRD07	LC1D09/38
444318	2.5	4 A	LRD08	LC1D09/38
444322	4	6 A	LRD10	LC1D09/38
444326	5.5	8 A	LRD12	LC1D09/38
444330	7	10 A	LRD14	LC1D09/38
444334	9	13 A	LRD16	LC1D12/38
444338	12	18 A	LRD21	LC1D18/38
444340	12	18 A	LRD318	LC1D40/65
444344	16	24 A	LRD22	LC1D25/38
444348	23	32 A	LRD32	LC1D25/38
444396	23	32 A	LRD3353	LC1D40/95
444397	23	32 A	LRD332	LC1D40/65
444400	30	40 A	LRD3355	LC1D40/95
444401	30	40 A	LRD340	LC1D40/65
444405	37	50 A	LRD350	LC1D40/65
444409	48	65 A	LRD365	LC1D50/65
444410	37	50 A	LRD3357	LC1D80/95
444412	55	70 A	LRD3361	LC1D80/95
444415	63	80 A	LRD3363	LC1D80/95
444418	80	104 A	LRD3365	LC1D80/95

Support for separate mounting of thermal relays, make Telemecanique



Cat.No.	Description
444507	Type LAD7B106 for thermal relay LRD01...35 and LR3D01 ...D35, cat.no. 444304...444348
444510	Type LA7D3064 for thermal relay LRD3353...LRD-3365, cat.no. 444396...444418
444514	Terminal Block LAD96560 for LRD340/350/365 Needed to connect with old type contactor or other maker contactor

RELAYS AND CONTACTORS

Auxiliary contact blocks for contactors LC-1.. and auxiliary relays CAD...
make Telemecanique



Cat.No.	Composition	Type
444572	1NO	LADN10
444576	1NC	LADN01
444580	1NO and NC	LADN11
444582	2NC	LADN02
444583	2NO	LADN20
444584	2NO and 2NC	LADN22
444586	1NO and 3NC	LADN13
444587	3NO and 1NC	LADN31
444588	4NO	LADN40
444592	4NC	LADN04

Time delay contact blocks with 1NO and 1NC contact for contactors LC1...
and auxiliary relays CAD..., make Telemecanique



Cat.No.	Description	Type
444647	1 to 30s on energisation	LADS2
444651	0.1 to 30s on energisation	LADT2
444657	10 to 180s on energisation	LADT4
444661	0.1 to 3s on energisation	LADR0
444663	0.1 to 30s on de-energisation	LADR2
444669	10 to 180s on de-energisation	LADR4

Thermistor relay, make Telemecanique



Cat.No.	Description
444681	Motor temp. control relay RM35TM50MW

Phase control relay, make Telemecanique



Cat.No.	Description
444690	Phase control relay RM22TG20

RELAYS AND CONTACTORS

Time relays, multifunctional



1



2

Cat.No.	Function	Fig.
444920	Electronic time relay with single pole change over contact (rating 1500VA), multifunctional, 0.05 sec...100 Hrs 12-240VAC/DC	1
444930	Electronic plug-in time relay with double pole c/o contacts max. 5A at 240VAC 11-pins 0.05 sec...5 days, 24...48VAC / 12...48VDC, type H3CR-A	2
444934	Electronic plug-in time relay with double pole c/o contacts max. 5A at 240VAC 8-pins 0.05 sec...300 Hrs 100-240VAC, type H3CR-A8	2
444937	Electronic plug-in time relay with double pole c/o contacts max. 5A at 240VAC 8-pins 0.05 sec...5 days 100-240VAC, type H3CR-A8E	2
444944	Electronic plug-in time relay with double pole c/o contacts max. 5A at 240VAC 11-pins 0.05 sec...5 days 100-240VAC, type H3CR-A	2

RELAYS AND CONTACTORS

Motor start/protection switches, inserts with thermal/magnetic protection type PKZM, rotating button



Cat.No.	Current setting range		
446004	0.10	0.16	A
446007	0.16	0.24	A
446010	0.24	0.40	A
446013	0.40	0.63	A
446016	0.63	1.0	A
446019	1.0	1.6	A
446022	1.6	2.5	A
446025	2.5	4.0	A
446028	4.0	6.3	A
446031	6.3	10	A
446032	8	12	A
446034	10	16	A
446037	16	20	A
446040	20	25	A
446042	25	32	A
446050	Enclosure IP55 CI-PKZ-GM, for above		

Motor start/protection switches, inserts with thermal/magnetic protection type GV2ME, push button

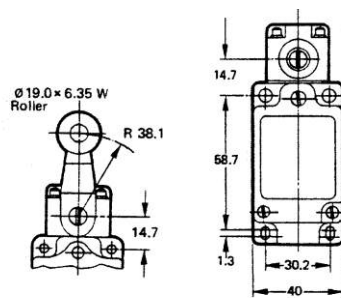


Cat.No.	Current setting range			
446060	0.10	0.16	A	
446063	0.16	0.25	A	
446066	0.25	0.40	A	
446069	0.40	0.63	A	
446072	0.63	1.0	A	
446075	1.0	1.6	A	
446078	1.6	2.5	A	
446081	2.5	4.0	A	
446084	4	6.3	A	
446087	6	10	A	
446090	9	15	A	
446093	13	18	A	
446096	17	23	A	
446099	20	25	A	
446102	24	32	A	
446104	Aux. contact	1NO/1NC	GVAE11	front side mounting
446105	Aux. contact	2NO	GVAE20	front side mounting
446106	Aux. contact	1NO/1NC	GVAN11	left side mounting
446108	Enclosure IP55 GV2MC02, for above			

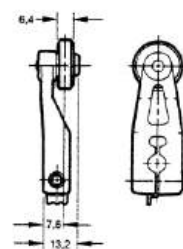
LIMIT SWITCHES AND MICRO SWITCHES

Limit switches and accessories

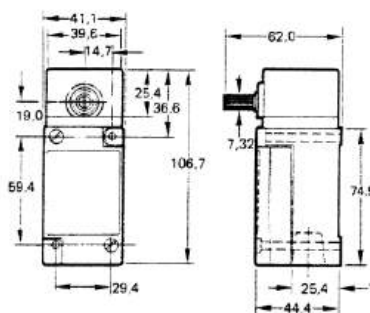
Cat.No.	Description	Fig.
462414	Limit switch with 1NO/NC contact 10A with PG13.5 entry, type 1LS1-4PG / D4B111N	1
462426	Limit switch with 1NO/NC contact 10A with M20 entry, type LSA1A	2
462433	Limit switch for Davits 3NO/3NC 25A IP67	3
462470	Roller lever, steel radius 38 mm, type LSZ51A	4
462478	Roller lever, nylon, radius 38 mm, type LSZ51B	4
462486	Roller lever, steel radius 40-90 mm, type LSZ52D	5
282714	Cable gland M20 for above limit switches	



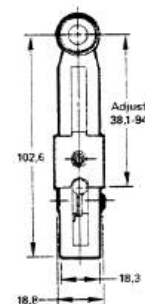
1



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3

LIMIT SWITCHES AND MICRO SWITCHES

Limit switches, make Siemens

Cat.No.	Description	Type	Fig.
462505	Limit switch with roller plunger, 1NO/1NC contact 6A Housing 40.5x78 mm with M20 entry, IP66/IP67	3SE5112-0CD02	1
462507	Limit switch with roller lever, 1NO/1NC contact 6A Housing 40.5x78 mm with M20 entry, IP66/IP67	3SE5112-0CE01	2
462510	Limit switch with roller lever, 1NO/1NC contact 6A Housing 40.5x78 mm with M20 entry, IP66/IP67	3SE5112-0CH01	3
462516	Limit switch with adj.roller lever, 1NO/1NC contact 6A Housing 40.5x78 mm with M20 entry, IP66/IP67	3SE5112-0CH50	4
462525	Limit switch with roller lever, 1NO/1NC contact 6A Housing 40.5x56 mm with M20 entry, IP66/IP67	3SE5122-0CE01	5
462536	Limit switch with adj.roller lever, 1NO/1NC contact 6A Housing 56x78 mm with M20 entry, IP66/IP67	3SE5122-0CH50	6



1



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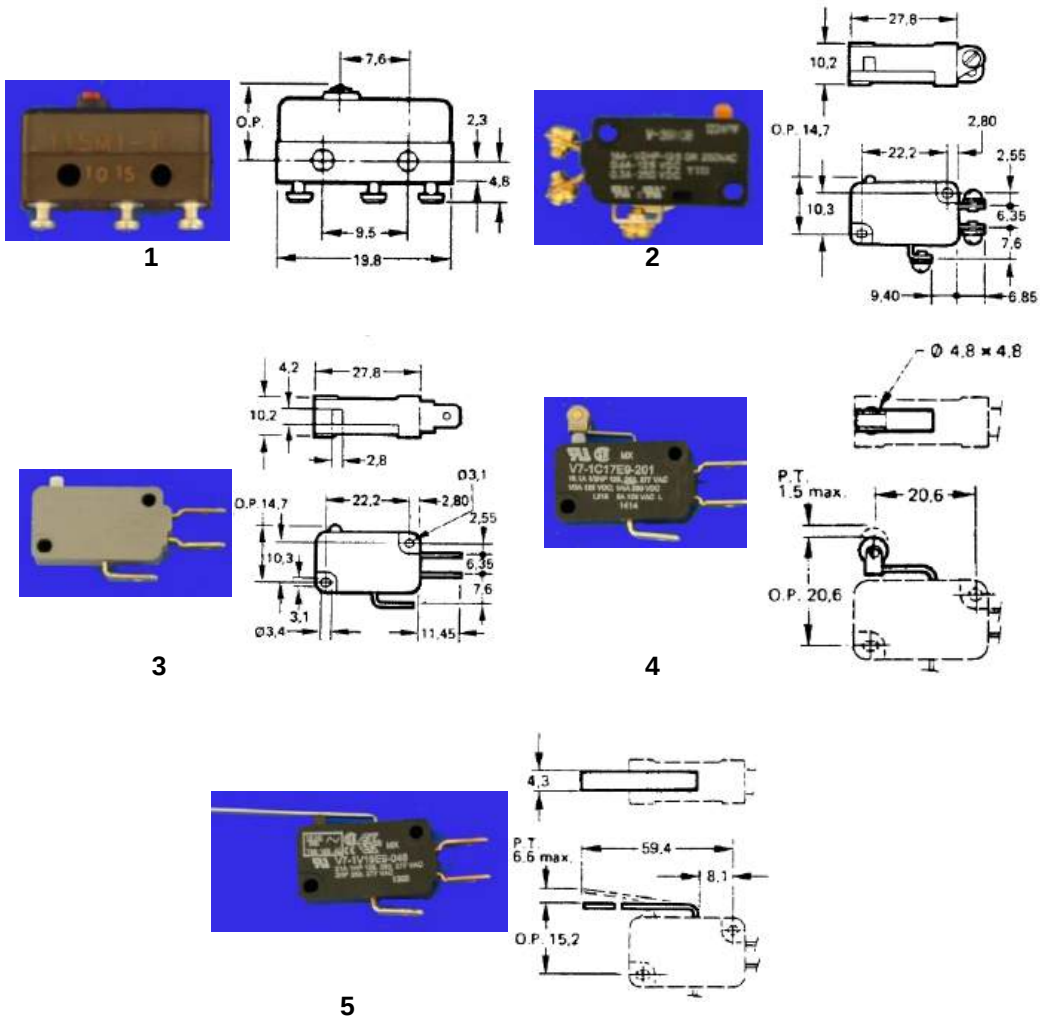


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LIMIT SWITCHES AND MICRO SWITCHES

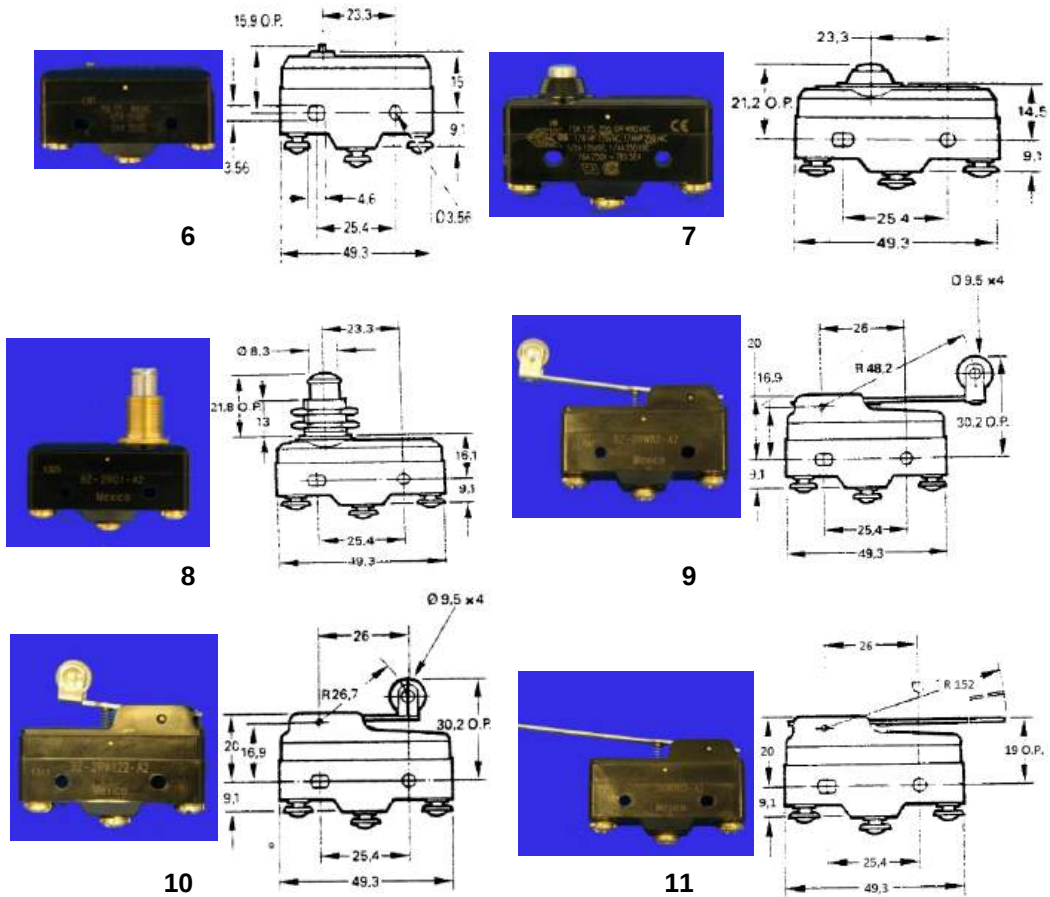
Microswitches, with single pole change over contact

Cat.No.	Type	Ampere	Fig.
462576	11SM1-T	5AC	1
462592	V3-3910B / 1005-0101	10AC	2
462608	V5C010BB3 / VA2-1650-00D0-Z	10AC	3
462624	V7-1C17E9-201 / TC-9122136	10AC	4
462640	V7-1V19E9-048 / TC-MS23	10AC	5
462656	BZ-2R-A2	15AC	6
462672	BZ-2RD-A2	15AC	7
462688	BZ-2RQ1-A2	15AC	8
462704	BZ-2RW-82-A2	15AC	9
462720	BZ-2RW822-A2 / Z15GW22B	15AC	10
462736	BZ-2RW863-A2 / Z15GWBOMI	15AC	11



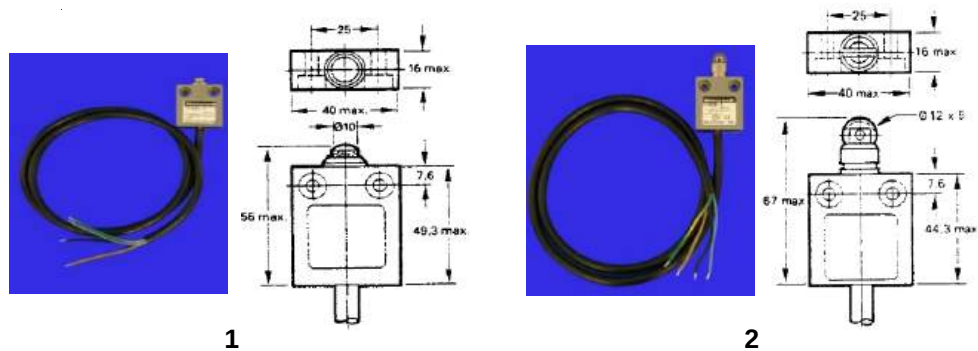
LIMIT SWITCHES AND MICRO SWITCHES

Microswitches, with single pole change over contact (continuation)



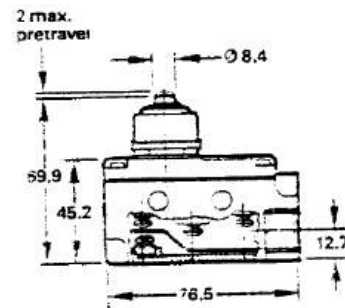
Enclosed microswitches, with single pole change over contact

Cat.No.	Type	Ampere	Fig.
462830	14CE1-1	5AC	1
462842	14CE2-1	5AC	2
462854	BZE7-2RN-C / ZE-N2-G with PG 13.5	15AC	3
462866	BZE7-2RN2-C / ZE-NA2-2G with PG 13.5 entry	15AC	4
462878	BZE7-2RQ9-C / ZE-Q21-2G with PG 13.5 entry	15AC	5

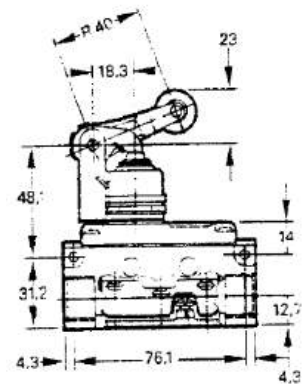


LIMIT SWITCHES AND MICRO SWITCHES

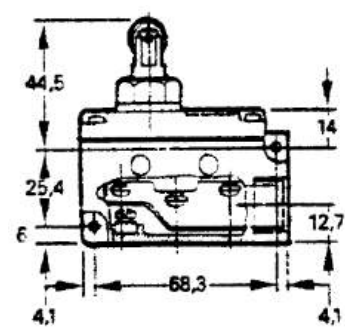
Enclosed microswitches, with single pole c/o over contact (continuation)



3



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TRANSFORMERS

Transformers, single phase

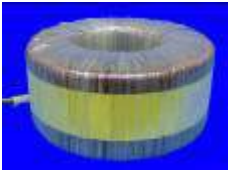
	Cat.No.	Pr. volt	Sec. Volt	VA	Fig.
	482220	110 or 220	12	100	4
	482242	110 or 220	24	100	4
	482250	110 or 220	24	250	4
	482258	110 or 220	24	500	4*
	482280	220	42	100	5
	482288	220	42	250	5
	482296	220	42	500	5
	482304	220	42	800	5
	482120	110 or 220	220 or 110	100	3
	482130	110 or 220	220 or 110	200	4
	482136	110 or 220	220 or 110	300	3
	482148	110 or 220	220 or 110	500	4*
	482156	110 or 220	220 or 110	500	3
	482176	110 or 220	220 or 110	750	2
	482188	110 or 220	220 or 110	1000	1
	482190	110 or 220	220 or 110	1000	3
	482198	110 or 220	220 or 110	2000	3
	482217	110 or 220	220 or 110	3000	1
	482219	110 or 220	220 or 110	3000	3
	482222	110 or 220	220 or 110	5000	3
	482324	110 or 220	220 or 110	1500	3
	482353	380 or 440	12	100	4
	482361	230 or 400 or 460	2X12	50	4
	482369	230 or 400 or 460	2X12	100	4
	482376	380 or 440	24	320	5
	482385	230 or 400 or 460	2X12	500	4*
	482420	380 or 440	42	100	5
	482428	380 or 440	42	250	5
	482436	380 or 440	42	500	5
	482511	230 or 400 or 460	2X115	63	4
	482519	230 or 400 or 460	2X115	100	4
	482527	230 or 400 or 460	110 or 230	150	4
	482535	230 or 400 or 460	2X115	200	4
	482543	230 or 400 or 460	2X115	250	4
	482551	230 or 400 or 460	2X115	300	4*
	482559	230 or 400 or 460	2X115	500	4*

Fig.

2 Toroidal type

3 In box with receptacles, ready for use

4 DIN rail and screw mounting

4* Only screw mounting

TRANSFORMERS

Power supplies



Cat.No.	Description
482700	Input voltage 110/220VAC, output voltage 1.5-3-4.5-6-7.5-9-12V 1000mA DC, with spider connector
482704	USB power supply USB A + USB C 5V 3A input 100-240 VAC

Metal enclosures for transformers

Cat.No.	Description	Dimensions
482810	For transformers cat.no. 482220, 482242, 482361, 482369, 482511, 482519	128x105x100mm
482830	For transformers cat.no. 482130, 482250, 482527, 482535, 482543, 482551	180x150x140mm
482850	For transformers cat.no. 482148, 482188, 482217, 482258, 482385, 482558	205x200x210mm
482860	For transformers cat.no. 482194, 482219, 482222	275x270x265mm



INSULATING TAPE

PVC insulating tape, 15 mm wide, rolls of 10 meters



Cat.No.	Colour
502110	red
502112	black
502114	green
502116	white
502118	yellow
502120	blue
502122	grey
502124	yellow-green (roll of 4.5 mtrs)

PVC insulating tape, 15 mm wide, rolls of 25 meters



Cat.No.	Colour
502214	red
502216	black
502218	green
502226	blue
502228	grey

PVC insulating tape, 20 mm wide, rolls of 20 meters



Cat.No.	Colour
502308	red
502310	black
502312	green
502314	white
502316	yellow
502318	blue
502320	grey

PVC insulating tape, 50 mm wide, rolls of 25 meters



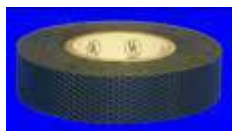
Cat.No.	Colour
502406	green

PVC insulating tape, 50 mm wide, rolls of 10 meters

Cat.No.	Colour
502404	black

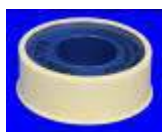
INSULATING TAPE

Armature binding tapes



Cat.No.	Description	Colour	Wide	Roll of
502552	Cotton tape	white	15 mm	100 mtrs
502588	Varnished cambric tape, 'Empire tape'		25 mm	50 mtrs
502610	Splicing compound tape, rubber		20 mm	10 mtrs

Teflon tape



Cat.No.	Description
502650	12 mm wide, roll of 10 mtrs

Scotch tapes, make 3M



Cat.No.	Description	Colour	Wide	Roll of
502708	No. 23, oil resistant Scotchfil	black	19 mm	9 mtrs
502720	No. 27, high-temperature 130°C	glass	½ Inch	66 ft
502732	No. 33, vinyl electrical tape	black	¾ Inch	18 ft
502736	No. 33, vinyl electrical tape	black	¾ Inch	66 ft
502740	No. 35, vinyl electrical tape	red	¾ Inch	66 ft
502744	No. 35, vinyl electrical tape	yellow	¾ Inch	66 ft
502748	No. 35, vinyl electrical tape	green	¾ Inch	66 ft
502752	No. 35, vinyl electrical tape	blue	¾ Inch	66 ft
502756	No. 35, vinyl electrical tape	white	¾ Inch	66 ft
502771	No. 88, all-weather vinyl electrical tape	black	19 mm	13 mtrs
502780	No. 88, all-weather vinyl electrical tape	black	19 mm	66 ft
502792	Scotchfil electrical insulation putty rubber		1½ Inch	5 ft



INSULATING SLEEVING AND ACCESSORIES

Sleeving, PVC, different colours

	Cat.No.	Inside diameter	Colour
	512120	1 mm	white
	512122	1 mm	yellow
	512124	1 mm	red
	512126	1 mm	green
	512128	1 mm	blue
	512130	1 mm	grey
	512132	1 mm	black
	512136	2 mm	white
	512138	2 mm	yellow
	512140	2 mm	red
	512142	2 mm	green
	512144	2 mm	blue
	512146	2 mm	grey
	512148	2 mm	black
	512152	3 mm	white
	512154	3 mm	yellow
	512156	3 mm	red
	512158	3 mm	green
	512160	3 mm	green/yellow
	512162	3 mm	blue
	512164	3 mm	grey
	512166	3 mm	black
	512170	4 mm	white
	512172	4 mm	yellow
	512174	4 mm	red
	512176	4 mm	green
	512178	4 mm	green/yellow
	512180	4 mm	blue
	512182	4 mm	grey
	512184	4 mm	black
	512190	5 mm	yellow
	512192	5 mm	red
	512194	5 mm	green
	512198	5 mm	blue
	512200	5 mm	grey
	512202	5 mm	black
	512206	6 mm	white
	512208	6 mm	yellow
	512210	6 mm	red

INSULATING SLEEVING AND ACCESSORIES

Sleeving, PVC, different colours (continuation)

Cat.No.	Inside diameter	Colour
512212	6 mm	green
512214	6 mm	blue
512216	6 mm	grey
512218	6 mm	black
512222	7 mm	white
512224	7 mm	yellow
512226	7 mm	red
512228	7 mm	green
512230	7 mm	green/yellow
512232	7 mm	blue
512233	7 mm	grey
512234	7 mm	black
512236	8 mm	white
512238	8 mm	yellow
512240	8 mm	red
512242	8 mm	green
512244	8 mm	green/yellow
512246	8 mm	blue
512247	8 mm	grey
512252	9 mm	white
512254	9 mm	yellow
512256	9 mm	red
512258	9 mm	green
512260	9 mm	blue
512262	9 mm	grey
512264	9 mm	black
512268	10 mm	white
512270	10 mm	yellow
512272	10 mm	red
512274	10 mm	green
512276	10 mm	blue
512278	10 mm	grey
512288	16 mm	black



INSULATING SLEEVING AND ACCESSORIES

Varnished cotton sleeving, ' Empire sleeving '



Cat.No.	Inside diameter
512406	1 mm
512408	2 mm
512410	3 mm
512412	4 mm
512414	5 mm
512416	6 mm
512418	7 mm
512420	8 mm

Glass sleeving, for high temperature (max. 450° C)



Cat.No.	Inside diameter
512450	3 mm
512452	4 mm
512454	5 mm
512456	6 mm
512458	7 mm
512460	8 mm
512462	10 mm

INSULATING SLEEVING AND ACCESSORIES

Shrinkable sleeving



Cat.No.	Diameter	Shrinking to:
512604	2.4 mm	1.2 mm
512608	3.2 mm	1.6 mm
512612	4.8 mm	2.4 mm
512616	6.4 mm	3.2 mm
512620	9.5 mm	4.8 mm
512624	12.7 mm	6.4 mm
512628	19.0 mm	9.5 mm
512632	25.4 mm	12.7 mm
512640	38.1 mm	19.0 mm
512644	51.0 mm	25.4 mm
512646	76.2 mm	38.1 mm
512650	Box shrinkable sleeving tubes black diameter 1-9 mm, length 100 mm, 170 pcs	

Shrinkable sleeving with glue, length 1 mtr, type MDT-A, IP68, make by 3M



Cat.No.	Diameter	Shrinking to:
512660	12 mm	3 mm
512662	19 mm	6 mm
512664	27 mm	8 mm
512666	32 mm	7.5 mm
512668	38 mm	12 mm
512670	50 mm	18 mm
512672	70 mm	26 mm
512674	90 mm	36 mm
512676	120 mm	40 mm



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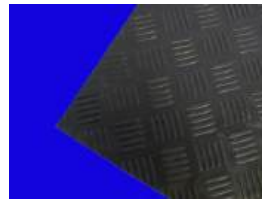


High-quality and reliable solutions.



INSULATING MATERIALS AND ACCESSORIES

Electrical putty and rubber gloves



Cat.No.	Description
513030	Electrical insulation putty, box of approx. 1 kg
513050	Silicone sealant, tube of approx. 310 ml
513080	Rubber gloves, 1000/5000 Volt approved
513085	Insulating matting 30.000 Volt. 1,2mtr x 10mtr x 3mm thick grey

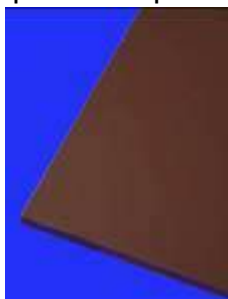
Insulating varnish (urethane) in spraytins



Cat.No.	Description
522210	Spraytin insulating varnish red 400 ml
522230	Spraytin insulating varnish clear 400 ml

INSULATING MATERIAL IN SHEETS AND RODS

Paper based phenolic impregnated sheets (Pertinax)



Cat.No.	Thickness	Sheet (in mm)		
535170	1 mm	1070	x	1040
535180	6 mm	1150	x	1070
535184	8 mm	1150	x	1070
535188	10 mm	1150	x	1070
535192	12 mm	1060	x	1130
535196	15 mm	1150	x	1070

Presspahn, (insulating paper), sheets of 800 x 1300 mm



Cat.No.	Thickness
535368	0.5 mm

Acrylic sheets, clear, sheets of 1250 x 1000 mm



Cat.No.	Thickness
535420	5 mm

Fabric based impregnated rods (Celeron), length 1000 mm



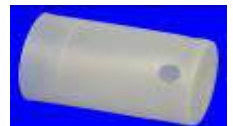
Cat.No.	Diameter
535756	100 mm

CAPACITORS

Motor run capacitors and accessories



Cat.No.	μF	Size (in mm)			Volt
562010	1	25	x	57	450
562014	1.5	25	x	57	450
562018	2	25	x	57	450
562022	2.5	25	x	57	450
562026	4	25	x	57	450
562030	5	30	x	57	450
562034	6	30	x	57	450
562038	8	30	x	70	450
562042	10	30	x	70	450
562046	12	35	x	70	450
562050	16	40	x	70	450
562054	20	40	x	70	450
562058	25	40	x	94	450
562062	30	40	x	94	450
562066	35	45	x	94	450
562070	40	45	x	94	450
562072	50	50	x	94	450
562074	60	50	x	120	450
562078	80	50	x	120	450
562082	100	60	x	120	450
562200	Connection cable 25 cm, with female fastons				
562300	Discharge resistor 1 Mohm 0.5W				
562406	Protecting cap for capacitor 25 mm				
562410	Protecting cap for capacitor 30 mm				
562414	Protecting cap for capacitor 35 mm				
562418	Protecting cap for capacitor 40 mm				
562422	Protecting cap for capacitor 45 mm				
562426	Protecting cap for capacitor 50 mm				
562430	Protecting cap for capacitor 60 mm				



TERMINAL BOARDS

Terminal boards for electric motors, 3-pole, 6 connections



Cat.No.	Length	Width	Height	Center to center holes	Diam. hole	Bolt
582110	40	25	10	11-19 slide holes		M 4
582122	50	32	10	12-20 slide holes		M 4
582128	56	36	10	20	5.8	M 5
582140	64	40	12	23	6.2	M 5
582146	56	36	13	16-24 slide holes		M 5
582152	70	45	15	20-32 slide holes		M 6
582164	78	48	13	28	7	M 6
582176	95	60	20	30-40 slide holes		M 8
582182	95	60	15	35	9.5	M 8
582194	115	70	20	30-60 slide holes		M 10

CLEANING PRODUCTS

Cleaning products, make CRC and others

Cat.No.	Description	
602120	Co contact cleaner in spray can, for sensitive electrical/electrical equipment	400 ml
602121	Co contact cleaner CRC in spray can, for sensitive electrical/electrical equipment	250 ml
602130	2/26 CRC in spray can, improves electrical properties frees rusted parts, lubricates, stops corrosion displaces moisture	250 ml
602140	Elektro degreaser in spray can, heavy duty cleaner and degreaser for electric motors and equipment	400 ml
602141	Lectra clean II CRC in spray can, heavy duty cleaner and degreaser for electric motors and equipment	500 ml
602150	Lectra clean II CRC in can	5 litre
602160	3/36 CRC in spray can, frees rusted parts. Lubricates stops corrosion, displaces moisture. Penetrates through rust and corrosion and seals out harmful moisture	250 ml
602170	5/56 CRC in spray can, stops squeaks, protects metals, frees rusted parts and starts wet engines	200 ml
602810	Industrial degreaser , dissolves and removes greases, oils, lubricants and adhesives	500 ml
602180	Zinc bright in spray can, cold galvanizing coating, protects iron and steel through sacrificial action, even when scratched or abraded	400 ml
602190	Soft Seal SP400 CRC in spray can, protects metals against rust and corrosion. Leaves a dry transparent film, easy to remove. Highly resistant to salt water and corrosive atmospheres	300 ml
602200	Dust remover spray can, removes dust from electronic, photographic and office equipment	400 ml
602220	Motor starter CRC in spray can, quick start for diesel and petrol engines	200 ml
602780	Freeze , is an insert coolant for locating thermal intermittent components on electrical equipment	400 ml
602784	Brakleen CRC in spray can, cleans and degreases brakes and clutches. Powerful and fast-working cleaner. Leaves no residue. Removes oil, brake fluid, grease and hardend deposits	500 ml
602750	Silicone in spray can, contains silicon. It is used for different purposes of insulating in the TV, radio and electronic engineering. It prevents sputtering, jump sparks and leakage current	400 ml
602790	Kontakt Tuner 600 in spray can, for cleaning tuners and other delicate electronic units and contacts	200 ml



CLEANING PRODUCTS

Cleaning products



Cat.No.	Description	
602500	Multi spray , lubricates, penetrates, prevents rust, displaces moisture	400 ml

Cleaning wipes

Cat.No.	Description
602510	Hand cleaning wipes in bag of 25 pieces
602520	Hand cleaning wipes in dispenser 18 pieces

KERGER
Electrical Marine Products

Unique hand cleaning wipes

New in our assortment!
Kerger Cat. No. 602510 (box 25 single wipes)
Kerger Cat. No. 602520 (dispenser 18 wipes)

Testing equipment for smoke detectors, make Siemens

Cat.No.	Description	Fig.
602900	Test gas Ref. 8S for smoke detectors, 250 ml	1
602913	Testing unit type RE 6 for test gas(tins)	2
602917	Telescopic extension rod 4 mtrs	3



1



2



3

CARBON BRUSHES

How to order carbon brushes

Measurements

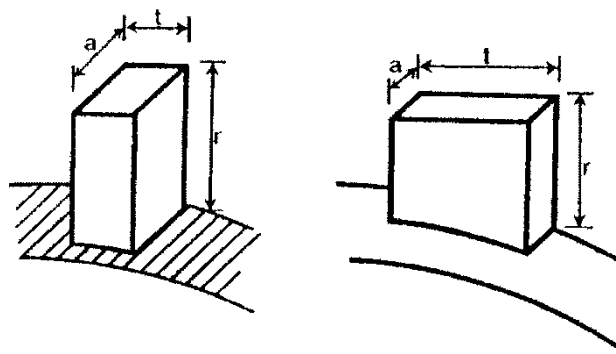
International Standard T x A x R (mm)

T= the size opposite the commutator/slip ring surface

A= the width measured in the shaft direction

R= the radial direction size (height)

Note if the brush is used on a slip ring or a commutator



CARBON GRADE:

IMPORTANT: all carbon brushes have a grade indication engraved. Supplying this indication can speed up delivery of the brushes.

If by any change the indication on the brush isn't readable then supply some other data of the machine (for example the motor name plate). For general information on grade classification see chapter TYPICAL GRAPHITE GRADES.

SHUNT LENGTH:

Length of the shunt is measured from the top of the brush to the center of the terminal. Also indicate whether the shunt is with or without insulation.

TERMINAL TYPE:

See illustrations and determine what type you need and specify the mounting hole diameter (example: bolt M4, M6, etc.)

CARBON BRUSHES

TYPICAL GRAPHITE GRADES

Grade classification I Natural graphite
Mainly used on steel slip rings for high speed applications. Appears as **G4, G160, LFC3A, LFC557, TG111, TD931, HM6R, 634, RE50, F19**

Grade classification II A Electro graphite
Grey coloured soft grades mainly used on slip rings and on commutators when low loads occur. Appears as **EH1, EH3, EG34D, E43, E46, G158, EG0, EG260, AY, RE92, RE54**

Grade classification II B Electro graphite
Black relatively hard grades with good commutating abilities. Appears as **G151 G162, 6677, EG367, EG332, SA35, SA45, E49, E50, RE59W**

Grade classification II C Electro graphite
Black, hard, general purpose DC motor and generator grades for high load applications. Appears as **G157, EH34, EG98B, 255, E27, RP5U**

Grade classification III Resin bonded graphite
Mainly used on AC commutator motors and universal motors. Appears as **G141, G124, 621, BG469, BG530, RX65, RX90, IM102, IM23, F45, F46**

Grade classification IV Amorphous carbon
Mainly used on small fractional HP motors. Appears as **H2, H4, H8, 450, AA, A, C4, RH30, A107**

Grade classification V A Metal graphite
Grades with copper contents between 60-75%, mainly used on slip rings. Appears as **M63, M65, M70, CG65/35, CG75, MK65, EN1350, A12S, CM5H, C39, RC67, RC73**

Grade classification V B Metal graphite
Grades with high copper contents, mainly used on slip rings high loads. Appears as **M87, M195, M291, CM0, CM1, OMC, MC79P, B91, B101, C151, RC87, RC95**

CARBON BRUSHES

Cat.No.						Carbon type	Model	Terminal	Remarks
622104	3.5	x	5	x	14	Silver	E 6 (2x)	B 3	Tachobrush
622108	4	x	4	x	20	IV	V		K56 several
622112	4	x	5	x	15	IV	V		Ebner a.o.
622116	4	x	5	x	16	II B	KVE		several
622120	4	x	5	x	20	II A	E14	B 3	
622124	4	x	5	x	7	III	KVE		Makita
622128	5	x	5	x	18	IV	KVE		Bosch a.o.
622132	5	x	6	x	11	III	KVE		Tacho
622136	5	x	6	x	16	III	KVE		
622140	5	x	6	x	20	V A	E14	A 3	Tacho
622144	5	x	6.4	x	13	V A	E 3	A 3	Siemens 110.500
622148	5	x	8	x	12	III	KVE		Makita
622152	5	x	8	x	15	IV	KVE		Bosch/AEG
622156	5	x	8	x	15	II B	E14	B 3	
622160	5	x	8	x	20	II B	E 6	B 3	
622164	5	x	10	x	20	II A	E 3	B 3	
622168	5	x	10	x	20	II B	E 3	B 3	
622172	5	x	10	x	20	II C	E 3	B 3	
622176	6	x	6	x	23	III	KVE		Siemens 802
622180	6	x	7	x	12.5	II A	KVE		
622184	6	x	8	x	25	IV	KVE		several
622188	6	x	9	x	25	II B	KVE		Electrolux
622192	6	x	9	x	25	II C	KVE		A&S
622196	6	x	9	x	28	II B	KVE		Progress
622200	6	x	10	x	18.5	III	KVE		Makita
622204	6	x	10	x	25	II C	E 6	B 3	
622208	6	x	13	x	25	II B	KVE		Flex/Bosch
622212	6	x	14	x	23	II B	KVE		Bosch a.o.
622216	6.3	x	6.3	x	17	IV	KVE		B&D/Bosch a.o.
622220	6.3	x	8	x	20	II C	E 6	B 3	AEG a.o
622224	6.3	x	8	x	20	III	KVE		
622228	6.3	x	8	x	25	II A	E 6	B 3	
622232	6.3	x	10	x	20	II B	KVE		
622236	6.3	x	10	x	25	II B	KVE		
622240	6.3	x	10	x	25	II C	E 6	B 4	
622244	6.3	x	12.5	x	25	II A	E 6	B 5	
622248	6.3	x	12.5	x	32	II C	E 6	B 5	
622252	6.4	x	6.4	x	20	II B	E14	A 4	Bosch
622256	6.4	x	6.45	x	20	Silver	E 9	A 4	Tacho Siemens
622260	6.4	x	8	x	18	IV	KVE		

CARBON BRUSHES

Cat.No.					Carbon type	Model	Terminal	Remarks
622264	6.4	x	12.5	x	24	II B	KVE	AEG
622268	6.4	x	12.7	x	25.4	III	KVE	
622272	6.4	x	16	x	22	IV	E29/1	A 4 Bosch
622276	6.4	x	16	x	25	II C	E 1	
622280	6.5	x	7.5	x	13.5	III	KVE	Hitachi
622284	6.5	x	7.5	x	18	III	KVE	Hitachi
622288	6.5	x	13.5	x	18	III	KVE	Makita
622292	6.5	x	13.5	x	22	III	KVE	Makita
622296	7	x	7	x	20	II A	E 6	B 3
622300	7	x	11	x	18.5	III	KVE	Hitachi
622304	7	x	11	x	31.7	II B	KVE	Miele
622308	7	x	13	x	18.5	III	KVE	Hitachi
622312	7	x	15	x	18.5	III	KVE	Hitachi
622316	7	x	17	x	18.5	III	KVE	Hitachi
622320	8	x	8	x	20	II A	E 6	B 5
622324	8	x	10	x	25	II A	E 6	A 4 Lloyd/AEG
622328	8	x	10	x	25	II B	E 6	B 5
622332	8	x	10	x	25	II C	E 6	B 5
622336	8	x	12.5	x	22	V A	E 6/E29	B 5
622340	8	x	12.5	x	25	II B	E 6	A 4 Siemens/Hansa
622344	8	x	16	x	25	II A	E 1	
622348	8	x	16	x	25	V A	E 1	
622352	8	x	16	x	25	II A	E 6	B 6 Siemens V52
622356	8	x	16	x	25	II B	E 6	B 6
622360	8	x	16	x	25	II C	E 6	B 6
622364	8	x	16	x	32	II A	E 6	A 6
622368	8	x	16	x	32	II C	E 6	A 6 Baumuller
622372	8	x	16	x	32	III	E 6	A 6 Siemens G8
622376	8	x	19	x	25	III	E 6	A 4 E.Faurndau
622380	8	x	20	x	25	II B	E 6	B 6 Siemens V 8.20
622384	8	x	20	x	25	III	E 6	B 6
622388	8	x	20	x	32	II A	E 6	B 6
622392	8	x	23	x	26	II A	E 3	B 6 Indar
622396	8	x	32	x	32	II A	E 6	B 6
622400	10	x	10	x	20	II A	E 6	B 5 Smit
622404	10	x	12.5	x	32	II B	E 6	A 6 Siemens KG 10
622408	10	x	16	x	25	II A	E 6	A 6 Hansa
622412	10	x	16	x	25	II C	E 6	B 6
622416	10	x	16	x	32	II A	E 6	B 6
622420	10	x	20	x	25	II A	E 6	B 6 Thrige
622424	10	x	20	x	32	II A	E 6	A 6 Siemens V 63

CARBON BRUSHES

Cat.No.					Carbon type	Model	Terminal	Remarks
622428	10	x	20	x	32 II B	E 6	B 6	Lloyd/AEG
622432	10	x	20	x	32 II C	E 6	B 6	
622436	10	x	20	x	40 II A	E 6	B 6	
622440	10	x	25	x	32 II B	E 6	B 6	Siemens V 10.25
622444	12	x	30	x	35 II A	E 3	B 6	Indar
622448	12.5	x	16	x	32 II A	E 6	B 6	Siemens KG 16
622452	12.5	x	16	x	32 II B	E 6	B 6	Siemens KG 16
622456	12.5	x	20	x	32 II A	E 6	B 6	Thrige-Hansa
622460	12.5	x	20	x	32 II B	E 6	A 6	Siemens KG 20
622464	12.5	x	25	x	32 II A	E 6	A 6	Siemens V 74
622468	12.5	x	25	x	32 II B	E 6	A 6	Siemens 101
622472	12.5	x	25	x	32 V A	E 6	B 6	Lloyd/AEG
622476	12.5	x	25	x	35 Silver	E 6	B 6	Propeller shaft
622480	12.5	x	25	x	40 II A	E 6	B 6	Smit a.o.
622484	12.5	x	25	x	40 II B	E 6	B 6	Smit a.o.
622488	12.5	x	25	x	40 II C	E 6	B 6	Smit a.o.
622492	12.5	x	25	x	50 II A	E 4	B 6	
622496	12.5	x	32	x	32 II B	E 5	B 6	Siemens V 12.32
622500	12.5	x	32	x	32 II B	E33		Siemens W 12
622504	12.5	x	32	x	32 II A	E33		
622508	12.5	x	32	x	40 II A	E 4	G 6	AEG
622512	12.5	x	32	x	40 Special	E 3	A 6	Forklifttruck
622516	15	x	30	x	30 II B	E24	A 6	BBC
622520	16	x	20	x	32 II A	E 6	B 4	Thrige
622524	16	x	20	x	45 I	E 6	B 6	
622528	16	x	20	x	45 I	E 7	B 6	
622532	16	x	20	x	50 I	E 5	B 6	
622536	16	x	25	x	40 II B	E35	G 6	Siemens G 57
622540	16	x	25	x	40 II B	E 6	B 6	Smit
622544	16	x	25	x	40 II C	E 6	B 6	
622548	16	x	25	x	50 I	E23	B 6	
622552	16	x	25	x	50 II B	E 5	A 6	Siemens G 25
622556	16	x	32	x	32 II A	E 5	A 6	Siemens V 16.32
622560	16	x	32	x	32 II B	E 5	A 6	Siemens V 16.32
622564	16	x	32	x	40 I	E 5	B 6	
622568	16	x	32	x	40 II A	E 5	B 6	Siemens V 85
622572	16	x	32	x	40 II B	E 5	B 6	
622576	16	x	32	x	40 II C	E 5	B 6	
622580	16	x	32	x	40 II A	E 4	G 6	AEG/BBC
622584	16	x	32	x	40 II B	E 4	G 6	AEG/BBC
622588	16	x	32	x	40 II C	E 4	G 6	AEG/BBC

CARBON BRUSHES

Cat.No.					Carbon type	Model	Terminal	Remarks
622592	16	x	32	x	50 II A	E 7	B 6	
622596	16	x	32	x	50 II A	E27	B 6	Smit/Asea a.o.
622600	16	x	32	x	50 II B	E27	B 6	Smit/Asea a.o.
622604	16	x	32	x	50 II C	E27		Smit/Asea a.o.
622608	16	x	40	x	40 II B	E33		Siemens W 16
622612	16	x	40	x	40 V A	E33	A 6	Siemens W 16
622616	20	x	32	x	32 II A	E24	G 6	BBC
622620	20	x	32	x	40 II A	E 4	G 6	
622624	20	x	32	x	40 II A	E10	F 6	
622628	20	x	32	x	40 II A	E 5	G 8	Siemens
622632	20	x	32	x	40 II C	E 4	G 8	
622636	20	x	32	x	40 II C	E10	F 6	
622640	20	x	32	x	50 II A	E 7	F 6	
622644	20	x	32	x	50 I	E 7	F 6	
622648	20	x	32	x	50 I	E23	F 6	
622652	20	x	40	x	40 V A	E33	F 6	Siemens W 20
622656	20	x	40	x	40 V A	E 5	G 6	
622660	20	x	40	x	50 II A	E 5	F 6	Siemens V 96
622664	20	x	40	x	50 I	E 7	F 6	
622668	20	x	40	x	50 V A	E 5	G 6	
622672	25	x	32	x	40 V A	E35	G 6	Morgan
622676	25	x	32	x	40 II A	E35	G 6	
622680	25	x	32	x	50 V A	E35	A 6	
622684	30	x	30	x	40 II A	E24	A 6	BBC
622688	30	x	30	x	50 II A	E24		BBC

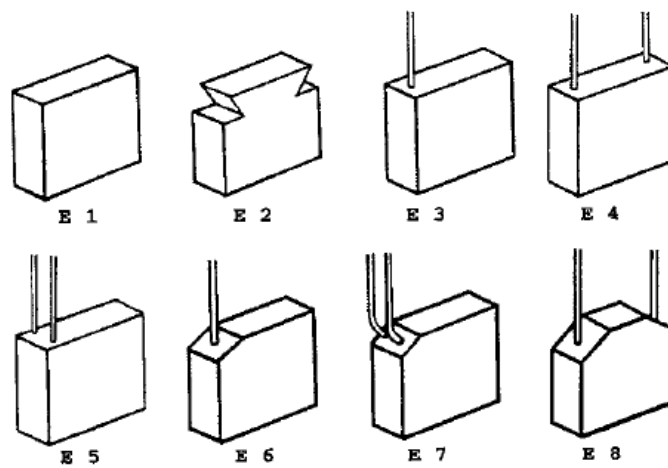
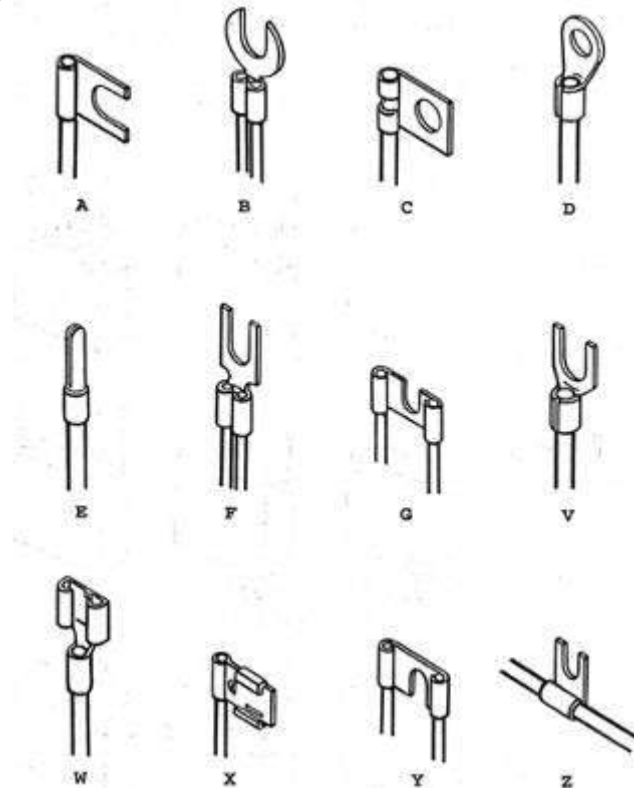
Carbon-small-brush assortment boxes

Cat.No.	Description
623100	Assortment box: 144 brushes, 24 types, 6 of each type, Japanese constructors: Hitachi, Makita, Ryobi a.o.
623120	Assortment box: 144 brushes, 24 types, 6 of each type, German constructors: Bosch, Fein, AEG, Metabo a.o.

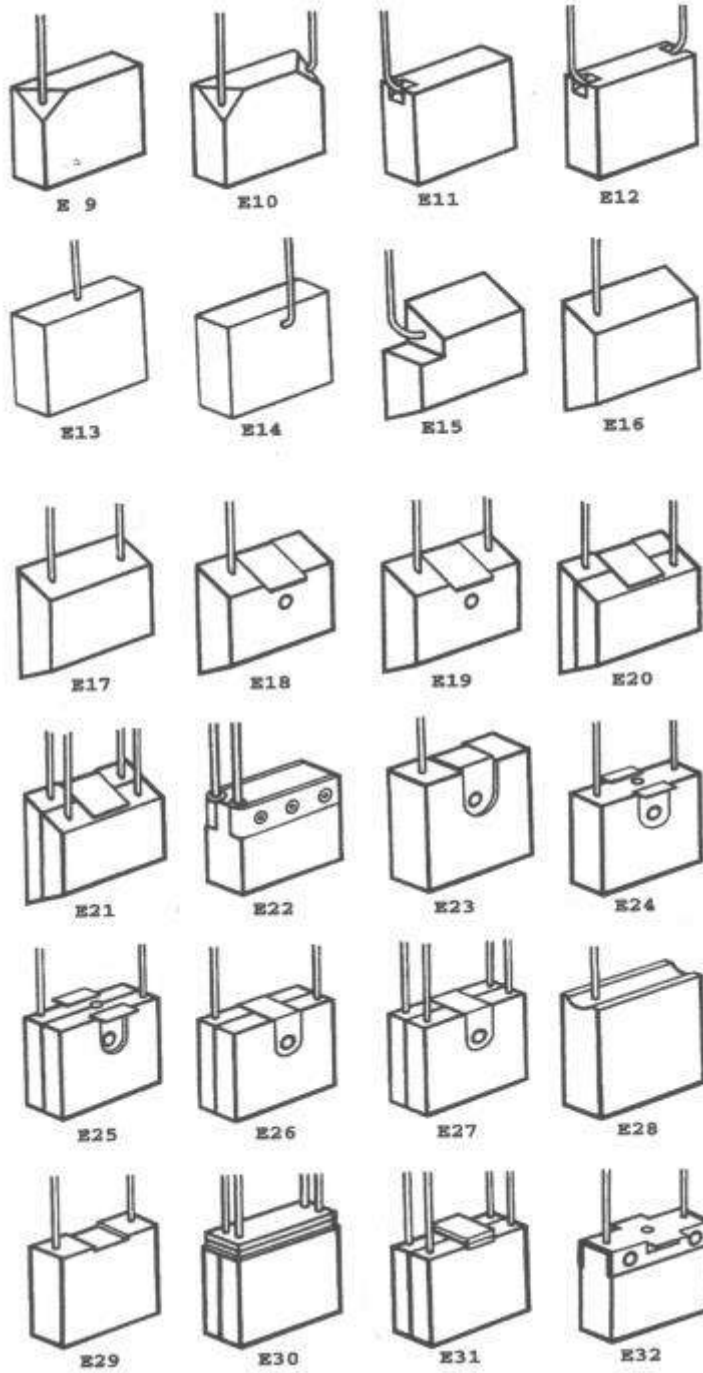
Also available: carbon rings
carbon rods
carbon contacts
brush holders

CARBON BRUSHES

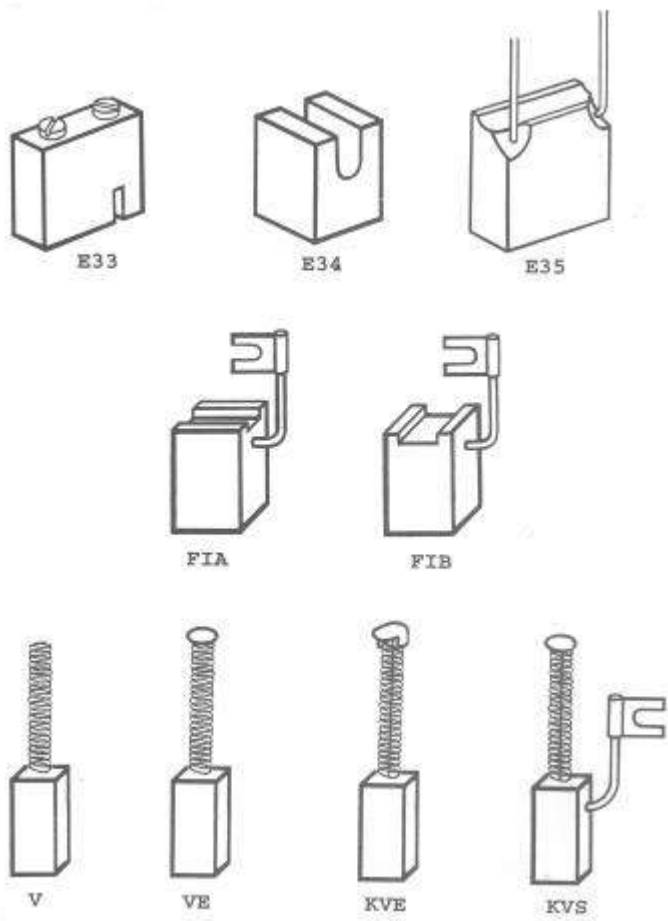
Terminals



CARBON BRUSHES



CARBON BRUSHES

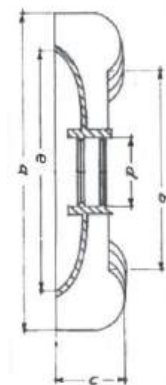


FAN IMPELLERS (PVC) FOR MOTOR COOLING

Fan impellers without shaft bush



Cat.No.	Dimensions				
	a	b	c	d	e
642104	123	75	26	27.5	99
642116	132	79	25	27.5	104
642128	165	95	32	42.5	131
642140	171	99	36	42.5	147
642152	212	124.5	46	56	174
642164	247	134	56	56	203
642176	296	172.5	56	69	244
642188	335	214	56	69	274



Shaft bushes for fan impellers



Cat.No.	For cat.no.:	Shaft diameter
642300	642104, 642116	self-tapping from 6 till 19 mm
642306	642104, 642116	14
642312	642104, 642116	16
642316	642104, 642116	19
642318	642104, 642116	20
642324	642128, 642140	self-tapping from 17.5 till 30 mm
642330	642128, 642140	24
642336	642128, 642140	25
642342	642128, 642140	30
642348	642152, 642164	self-tapping from 20 till 40 mm
642354	642152, 642164	28
642360	642152, 642164	30
642366	642152, 642164	32
642372	642152, 642164	40
642378	642152, 642164	45
642384	642176, 642188	self-tapping from 29.5 till 50 mm
642390	642176, 642188	42
642396	642176, 642188	45
642402	642176, 642188	50

BALL BEARINGS

Deep groove ball bearings, single row, two side shielded, light duty



Cat.No.	Type	Inside ø	Outside ø	Thick
644003	6200-2Z	10	30	9
644005	6201-2Z	12	32	10
644007	6202-2Z	15	35	11
644009	6203-2Z	17	40	12
644011	6204-2Z	20	47	14
644013	6205-2Z	25	52	15
644015	6206-2Z	30	62	16
644017	6207-2Z	35	72	17
644019	6208-2Z	40	80	18
644021	6209-2Z	45	85	19
644023	6210-2Z	50	90	20
644025	6211-2Z	55	100	21
644027	6212-2Z	60	110	22
644029	6213-2Z	65	120	23
644031	6214-2Z	70	125	24
644033	6215-2Z	75	130	25

Deep groove ball bearings, single row, two side shielded, medium duty



Cat.No.	Type	Inside ø	Outside ø	Thick
644070	6300-2Z	10	35	11
644072	6301-2Z	12	37	12
644074	6302-2Z	15	42	13
644076	6303-2Z	17	47	14
644078	6304-2Z	20	52	15
644080	6305-2Z	25	62	17
644082	6306-2Z	30	72	19
644084	6307-2Z	35	80	21
644086	6308-2Z	40	90	23
644088	6309-2Z	45	100	25
644090	6310-2Z	50	110	27
644092	6311-2Z	55	120	28
644094	6312-2Z	60	130	31
644096	6313-2Z	65	140	33
644098	6314-2Z	70	150	35
644100	6315-2Z	75	160	37

BALL BEARINGS

Deep groove ball bearings, single row, two side shielded.

Radial clearance is larger than the normal 6200-2Z series, light duty



Cat.No.	Type	Inside ø	Outside ø	Thick
644133	6200-2Z C3	10	30	9
644135	6201-2Z C3	12	32	10
644137	6202-2Z C3	15	35	11
644139	6203-2Z C3	17	40	12
644141	6204-2Z C3	20	47	14
644143	6205-2Z C3	25	52	15
644145	6206-2Z C3	30	62	16
644147	6207-2Z C3	35	72	17
644149	6208-2Z C3	40	80	18
644151	6209-2Z C3	45	85	19
644153	6210-2Z C3	50	90	20

MEASURING INSTRUMENTS

Clamp-meters



Cat.No.	Description
662140	Digital clamp-meter 200/600A AC, 200/600VAC, 2kOhm, 2kHz/5 MHz, with case
662152	Digital clamp-meter 40/400/1000A AC, 400/750VAC, 4kOhm, 4kHz/4MHz with continuity tester and case
662153	Digital clamp-meter 400/1200A AC/DC, 750V AC/DC, 200Ohm, data-hold on peakhold function with continuity tester and case

Multimeters



1

Cat.No.	Description	Fig.
662214	Analogue multimeter 600V AC/DC, 300mA DC, 300KOhm, continuity test	1
662222	Small digital multimeter 0/250V AC/DC, 0/10A DC, 0/200MOhm with diode and continuity tester	
662226	Digital multimeter 0/600V AC/DC, 0/10A AC/DC, 0/200MOhm, 0/20mFd	2
662228	Digital multimeter UT193C , true RMS meter, 600V AC/DC, 10A AC/DC 60MOhm	
662236	Digital multimeter Fluke 175 , 100V AC/DC, 10A AC/DC, 50MOhm with holster	
662238	Digital multimeter Fluke 179 , 1000V AC/DC 10A AC/DC, 50MOhm with holster	
662240	Digital multimeter Fluke 77-4 , 1000 V AC/DC 10A AC/DC, 32MOhm with holster	3
662242	Digital multimeter Fluke 87-5 , true RMS meter 1000V AC/DC, 10A AC/DC, 40MOhm, 50nS, 5mFd, 200kHz with holster	



2



3



4



5

Infrared thermometer

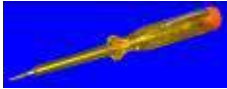
Cat.No.	Description	Fig.
662300	Digital infrared thermometer -50 to 900 degrees C. in case	4

Electrical test kit

Cat.No.	Description	Fig.
662298	Digital multimeter with 11-functions with non-contact voltage detector 100-600VAC and continuity tester in soft case.	5

MEASURING INSTRUMENTS

Voltagetesters

	Cat.No.	Description	Fig.
1	662310	Screwdriver tester 100/500VAC length 145 mm	1
	662314	Set spark testing screwdriver 2,5-19kV	2
	662322	Waterproof Volt tester IP65 12-690VAC/DC and continuity test	3
	662325	Tester, 6-400V	4
	662330	Tester, type Mastercheck 6-400V AC/DC	5
	662340	Voltage and continuity tester type Combicheck 6-690V AC/DC	6
	662350	Volt Stick , 90-1000VAC, for safely checking the presence of an AC voltage in e.g, cables, wallsockets, fuses and circuit breakers. No current flow is needed	7
	182532	Battery 12V for cat.no. 662340	
			
3			
			4
			6
			
5			
			7

MEASURING INSTRUMENTS

Insulation testers (Megger-testers)



Cat.No.	Description
662380	Electronic insulation tester analogue, 250V, 50MOhm, 500V, 100MOhm and 1000V, 2000Mohm
662384	Electronic insulation tester digital 1000V, 4000Mohm, 0-600V AC/DC with case

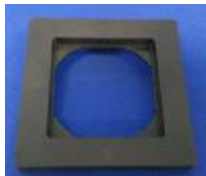
Hour meters, for panel mounting, front dimensions 48 x 48 mm



Cat.No.	Voltage	Fig.
662397	10-80 VDC	
662400	24V 60 Hz	
662410	110V 60Hz	
662420	220V 50Hz	
662430	220V 60Hz	
662440	440V 60Hz	
662450	Adaptor for surface mounting on DIN-rail	1
662454	Adaptor 72 x72 mm for panel mounting hour meter 48 x 48 mm	2



1



2

Magnet testers



Cat.No.	Description
662480	For testing solenoid valves, relay coils and hydraulic or pneumatic systems without having to shut them down. Suitable for AC and DC current

MEASURING INSTRUMENTS

Ammeters, moving iron, panel mounting 72x72 mm, scale 90°,
AC 25-100Hz, for direct connection (without current
transformer) with 2 times overload capacity



Cat.No.	Ampere	
665004	1	no overload capacity
665007	2.5	
665010	4	
665013	6	
665016	10	
665019	15	
665022	25	
665025	40	
665028	60	
665031	100	

Ammeters, moving iron, panel mounting 72x72 mm, scale 90°,
AC 25-100Hz, for use with current transformer /5A,
2 times overload capacity



Cat.No.	Ampere
665048	25
665051	50
665054	60
665057	100
665060	200
665063	400
665066	600
665069	1000

Current transformers secondary current 5A



Cat.No.	Ampere	VA
665086	25	5
665089	50	1.25
665092	60	1.25
665095	100	1.5
665098	200	10
665101	400	15
665104	600	15
665107	1000	15

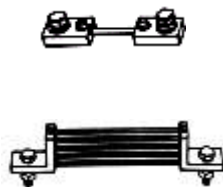
MEASURING INSTRUMENTS

Ammeters, moving coil, panel mounting 72x72 mm, scale 90°,
DC for use with shunt 60mV



Cat.No.	Ampere
665124	10
665127	25
665130	40
665133	60
665136	100
665139	150
665142	250
665145	400

Shunts 60 mV



Cat.No.	Ampere
665160	10
665163	25
665166	40
665169	60
665172	100
665175	150
665178	250
665181	400

Voltmeters, moving iron, panel mounting 72x72 mm, scale 90°,
for AC 25-100Hz



Cat.No.	Volt
665201	15
665207	40
665216	150
665228	300
665234	500

Voltmeters, moving coil, panel mounting 72x72 mm, scale 90°,
for DC



Cat.No.	Volt
665252	10
665255	25
665258	40
665261	60
665264	100
665267	150

MEASURING INSTRUMENTS

Voltmeters, moving coil, panel mounting 72 x 72 mm, scale 90°, for DC
(continuation)

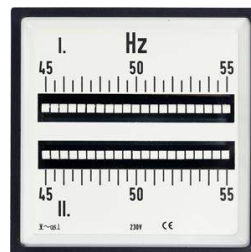


Cat.No.	Volt
665270	250
665273	400
665276	500

Frequency meters, panel mounting 72 x 72 mm, scale 90°



Cat.No.	Hz	Volt
665292	55-65	110/130
665295	45-55	230
665298	55-65	220
665301	45-55	400
665304	55-65	440



MEASURING INSTRUMENTS

Accessories for measuring instruments



1

Cat.No.	Description	Fig.
662750	Clip-on probe, Red	1
662752	Clip-on probe, Black	1
662780	Set test leads with clip-on probe and banana plug 4 mm	2
662800	Set test leads with test probe and banana plug 4 mm	3
662820	Set test leads, type TL75 for all Fluke 3.5 digit DMM's, except 8010A and 8012A. Also for all other 3.5 digit DMM's that accept 8 or 9 mm safety shrouded banana plugs	4
662823	Set test leads, type TL24 with bent and straight plugs for all Fluke DMM's except 8010A and 8012A	5
662835	Fluke heavy duty insulation piercing testclip type AC89	6



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824103	Fuse 440mA	10.3 x 34.9 mm	for Fluke DMM's 75, 85, 87, 863 and 867
824106	Fuse 1A	10.3 x 34.9 mm	for Fluke DMM's 75, 77, 21 and 23
824109	Fuse 11A	10.3 x 38.1 mm	for Fluke DMM's 26, 70, 73, 83, 85, and 87
824112	Fuse 15A	10.3 x 38.1 mm	for Fluke DMM's 73, 75, 77, 79, 21, 23, 29, 83, 85 and 87



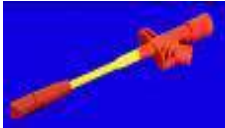
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INDOOR LIGHTING

Fixtures for Philinea (Linestra) lamps, also suitable for Philinea LED lamps cat.no. 131498, 131506

Cat.No.	Watt	Length
682124	35	300 mm with switch
682134	60	500 mm with switch



Berth lights



Cat.No.	Material	Watt	Base
682208	Steel, chrome plated	20	E27 with tumbler switch for tubular lamp

Machine and chartroom luminaries



1

Cat.No.	Description	Base		Fig.
682280	with pushbutton switch	E27	wall mounting adjustable	1
682302	Elbow-hinge type	E27	desk mounting	2
682306	Elbow-hinge type	B22	wall mounting	2
682308	Elbow-hinge type	E27	wall mounting	2



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Desk and wall lamps



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Cat.No.	Description	Fig.
682320	With flexible arm and adjustable shade, E27 lampholder, pushbutton switch, for ball lamp 40W	1
682340	Magnifying desk lamp LED 230V 3.5W	2
682350	Pin-up lamp for wall mounting, with E27 lampholder and pushbutton switch	3
682360	Desk lamp LED 6W 110-240VAC with USB output 3 steps dimmable, 5 steps colors adjustable 3000K-6500K	



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INDOOR LIGHTING

Ceiling or wall lighting fixtures for surface mounting

Cat.No.	Watt	Base		Fig.
682402	40	E27	slant	2
682404	60	E27	straight	1



Cat.No.	Description	For cat. no.
682500	DKN glass, opal 109 x 200 mm	682440
682502	DKN glass, opal 158 x 250 mm	682442
682504	DKN glass, opal 180 x 300 mm	682444
682506	DKN glass, opal 180 x 350 mm	682444
682542	Screwed opal spherical globe, screw diameter 85 mm globe 145 x 145 mm 60W	682404, 682406, 682410, 682412



OUTDOOR LIGHTING

Portable handlamps, IP56

Cat.No.	Description	Fig.
692100	Rubber handlamp with guard and clear glass globe for lamp B22	1
692101	Rubber handlamp with guard and clear glass globe for lamp E27	1
692110	Heavy duty handlamp with PVC handle, for lamp B22, guard and clear glass globe (also available with red, green or blue glass globe)	2
692111	Same as cat.no. 692110, however for lamp E27	2
692141	Portable handlamp with for lamp E27, as 692101 with 15 m cable and Europlug	3



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Well glass fittings (European), IP56

Cat.No.	Material	Watt	Connection	Base		Fig.
692198	Brass	25	0-	B15		1
692202	Brass	25	0-	E14		1
692203	Brass	100	0-	B22		2
692205	Brass	100	0-	E27	without drop hole	2
692206	Brass	100	0-	E27		2
692207	Brass	100	0=	B22		2
692209	Brass	100	0=	E27	without drop hole	2
692210	Brass	100	0=	E27		2
692211	Brass	100	-0-	B22		2
692214	Brass	100	-0-	E27		2
692215	Brass	100	-0-	E27	without drop hole	2
692219	Brass	100	0-	B22	wall bracket	3
692222	Brass	100	0-	E27	wall bracket	3



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Multi purpose luminaire, Wiska 2000 E27 IP68

Cat.No.	Material	Watt	Connection	Base
692230	Polycarbonate	75W	-0-	E27

OUTDOOR LIGHTING

Well glass fittings (Japanese)

Cat.No.	Description	Watt	Connection	Base	IP-rating	Fig.
692250	With globe SAO 57	20	-0-	B15	IP56	1
692256	With globe SAO 80	20	0=	B15	IP56	1
692258	Type WBM1 with globe	20	0-	B15	IP56	2
692262	Type P1S2 with globe SAO 90	60	0=	E26	IP56	3
692268	Type WB-2 with globe SAO 90	60	0-	E26	IP56	4
692276	With globe SAO 120	100	0=	E26	IP56	3



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Guards for well glass fittings and handlamps

Cat.No.	Description	Fig.
692360	Brass, for cat.no. 692198 and 692202	1
692380	Brass, for cat.no. 692203, 692206, 692207, 692210, 692211, 692214, 692219 and 692222	2
692382	German, brass, inside threaded with clear globe	3
692390	American 6", brass, inside threaded	4
692400	Japanese, brass, inside threaded for globe SAO 57	5
692408	Japanese, polycarbonate, inside threaded for globe SAO 80	6
692424	Japanese 6", brass, inside threaded for globe SAO 90	7
692428	Japanese 6", polycarbonate, inside threaded for globe SAO 90	8
692432	Japanese, brass, inside threaded for globe SAO 120	8



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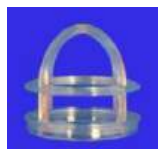
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OUTDOOR LIGHTING

Globes for well glass fittings

	Cat.No.	Outside		Colour	Description	Fig.
		diam.	length			
 1	692619	64	x 73	clear	for 692194, 692196, 692198 692199, 692202 and 692200	1
	692630	80	x 102	clear	for 692100, 692101, 692140 and 692141	2
	692680	88	x 165	clear	type 1021/1	3
	692684	88	x 165	red	type 1021/3	
	692686	88	x 165	green	type 1021/4	
 2	692688	88	x 165	blue/green	type 1021/5	
	692730	94	x 115	clear	European type	5
	692731	94	x 115	clear	European type, without drop hole	
	692732	94	x 115	red	European type, without drop hole	
	692734	94	x 115	green	European type, without dro	
	692780	103	x 150	clear	Japanese, FAO 90	4
	692784	103	x 150	red	Japanese, FRO 90	
	692786	103	x 150	blue	Japanese, FBO 90	
	692788	103	x 150	green	Japanese, FGO 90	
	692830	132	x 160	clear	European type	5
 3						
 4						
 5						

Globes for well glass fittings, screw type

	Cat.No.	Outside		Colour	Description	Fig.
		diam.	length			
1 	693020	57	x 75	clear	Japanese, SAO 57	1
	693026	80	x 90	clear	Japanese, SAO 80	2
2 	693040	82	x 150	clear	Japanese, SAO 90	2
	693044	82	x 150	red	Japanese, SAO 90	
	693046	82	x 150	blue	Japanese, SAO 90	
	693048	82	x 150	green	Japanese, SAO 90	
	693060	100	x 115	clear	thread M100 x 2 with structure	3
	693066	125	x 122	opal	thread M100 x 2	4
	693080	120	x 175	clear	Japanese, SAO 120	2
3 	693090	135	x 225	clear	Japanese, SAO 135	2
	4 					

OUTDOOR LIGHTING

Bulleyes

	Cat.No.	Shape	Material	Watt	Base	Connection	IP-rating	Fig.
 1	135890	oval	PVC LED	5	-	T-entry with guard	IP40	1
	693219	oval	PVC	60	E27	-0- with guard	IP44	1
	693237	round	synthetic resin	60	E27		IP44	2
	693240	round	cast iron	100	B22	0= with guard	IP55	3
	693241	round	cast iron	100	E27	0= with guard	IP55	3
	693250	round	brass	100	B22	0= with guard	IP56	3
	693251	round	brass	100	E27	0= with guard	IP56	3
 3	 3							

Globes for bulleyes

	Cat.No.	Description
	693425	Round, 197 x 46 mm, with flange for K#693240/41 and 693250/51

Accessories for bulleyes

	Cat.No.	Description
	693810	Brass swing bolt, 1/4 x 1 1/4 " for brass bulleyes

Cargo clusters with steel reflector and wire guard, complete with suspension hook, cable gland and lampholder, for max. 75W lamps

Cat.No.	Description
695103	With 5 E27 lampholders, complete with internal wiring



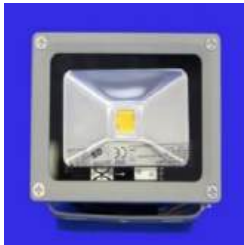
OUTDOOR LIGHTING

LED High Bay

Cat.No.	Description
695151	LED high bay 150W 85-265V IP65 with bracket and suspension lug, 3mtr cable and cable connector 4000K 18.000 Lumen. Beam angle 120 degrees.



LED floodlights IP65, aluminium with W.T. cable connector



Cat.No.	Watt	VDC	Lumen	Colour
695154	30	12-24	2850	white
695156	50	12-24	4750	white
695158	100	12-24	9500	white

LED floodlights IP65, aluminium with W.T. cable connector



Cat.No.	Watt	VAC	Lumen	Colour
695164	10	100-240	530	warm white
695166	10	100-240	700	daylight
695168	20	100-240	1300	warm white
695170	20	100-240	1500	daylight
695172	30	100-240	2400	warm white
695174	30	100-240	2700	daylight
695176	50	100-240	3500	warm white
695178	50	100-240	4500	daylight
695180	70	100-240	4900	warm white
695182	70	100-240	6300	daylight
695184	100	100-240	9000	warm white
695186	100	100-240	9000	daylight
695188	150	100-240	14200	warm white
695190	150	100-240	14200	daylight
695192	200	100-240	18500	warm white
695194	200	100-240	18500	daylight
695196	300	100-240	28200	warm white
695198	300	100-240	28200	daylight

OUTDOOR LIGHTING

LED floodlights SLIM LINE IP66, IK08 aluminium powder coated with strong bracket and W.T. cable connector



Cat.No.	Watt	VAC	Lumen	Colour
695250	100	100-277	15000	white
695254	150	100-277	22500	white
695258	240	100-277	30000	white
695260	400	100-277	68000	white

LED floodlights IP67, stainless steel 304



Cat.No.	Watt	VAC	Lumen	Colour	
695206	50	85-265	6000	daylight	
695207	50	100-240	5000	white	light duty
695223	100	85-265	12000	daylight	
695224	100	100-240	10000	white	light duty

OUTDOOR LIGHTING

Cable connector

Cat.No.	Description
385330	Cable connector 3-pole max. 6mm2 watertight IP68, for cable dia. 5-9mm / 9-12mm



Halogen floodlights for lamps with R7s base

Cat.No.	Watt	Material	
695200	500	die-cast aluminium	IP44
695210	1000	Die-cast aluminium	IP44
695230	1500	Die-cast aluminium	IP44
695225		Support for halogen and LED floodlights	

Fig.
1
1
1
2



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OUTDOOR LIGHTING

Glasses for halogen, sodium and LED floodlights

Cat.No.	Description		
694014	For floodlight	cat.no. 695200	176 x 141 mm
694024	For floodlight	cat.no. 695210	258 x 183 mm
694042	For floodlight	cat.no. 695294, 695400/08/12	420 x 363 mm
694044	For floodlight	cat.no. 695164, 695166	110 x 80 mm
694046	For floodlight	cat.no. 695168, 695170	170 x 135 mm
694048	For floodlight	cat.no. 695172, 695174	220 x 180 mm
694050	For floodlight	cat.no. 695176, 695178	280 x 225 mm
694052	For floodlight	cat.no. 695180, 695182, 695184, 695186	360 x 260 mm
694054	For floodlight	cat.no. 695188, 695190, 695192, 695194	390 x 209 mm
694056	For floodlight	cat.no. 695196, 695198	560 x 295 mm

Floodlights for incandescent and mercury lamps

Cat.No.	Description
695354	Boat deck light 500W E40 IP56 cast iron

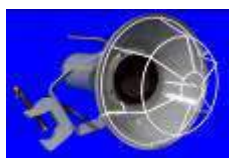


Floodlights for halogen, reflector and mercury lamps

Cat.No.	Description	Fig.
695360	Type T98 for halogenlamp 24V 200W max., flange base (for lamp see cat.no. 108724)	1
695368	For Japanese reflector lamps 100 and 200W with E26 base, clamp type	2
695370	For Japanese reflector lamps 100 and 200W with E26 base, flange base	3
695374	For Japanese reflector lamps 300 and 500W with E39 base, flange base	3
695376	For Japanese reflector lamps 300 and 500W with E39 base, clamp type	2
695378	For Japanese mercury reflector lamps 300 and 400W with E39 base, flange base	3
695380	For Japanese mercury reflector lamps 300 and 400W with E39 base, clamp type	2



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OUTDOOR LIGHTING

Rubber hand searchlights

Cat.No.

695442 Complete with cable plug and lamp 12 Volt 50W



Searchlights, 220 mm, deck mounted, IP68

Material: seawater resistant aluminium, complete with lamp



Cat.No.	Volt	Watt	Range in mtrs at 1 lux
696010	24	250	950
696014	220	300	1005

Searchlights, 350 mm, deck mounted, IP56

Material: seawater resistant aluminium, complete with lamp



Cat.No.	Volt	Watt	Range in mtrs at 1 lux
696030	24	250	1300
696034	110	1000	1460
696038	220	1000	1260

Searchlights, 350 mm, cabin controlled , IP56

Material: seawater resistant aluminium, complete with lamp



Cat.No.	Volt	Watt	Range in mtrs at 1 lux
696054	24	250	1300
696058	110	1000	1460
696062	220	1000	1260



cabin control

NAVIGATION LIGHTS

Navigation lights, for all vessels of 20 mtrs but less than 50 mtrs.

According to international regulations for Preventing Collisions at sea.

1972 (72 COLREGS-IMO72) and the Rhine inland waterway regulation.

Housing of glass-reinforced polycarbonate ,IP56, with **BAY15d** lampholder.

Without light source.

Series 500 have got the following approvals: BSH, GL, UL 1104, MED (Wheelmark)



Cat.No.	Sectional serie 500	Colour
715260	Starboard	green
715262	Portlight	red
715264	Masthead	white
715266	Stern light (white reduced)	grey
715268	Towing light	yellow



Cat.No.	All round serie 500	
715270	Signal light (white reduced)	grey
715272	Signal light	white
715274	Maneuvering light	white
715276	Signal light	red
715278	Signal light	green
715280	Signal light	yellow
715282	Signal light	blue
715284	Spare lampholder BAY15d	
103404	Navigation lamp 12V 40CD BAY15d	K.N.M.I approved
103410	Navigation lamp 24V 40CD BAY15d	K.N.M.I approved



Cat.No.	Steering light SL500	
715290	Steering light with BA15d lampholder For vessels > 20 mtr for Panama,Kiel, St Lawrence and other Canals	blue
715292	Lamp 220V 18CD BA15d for SL500 only	

NAVIGATION LIGHTS

Navigation lights, for all seagoing vessels with a length of 20 mtrs or more.
According to International Regulations for Preventing Collisions at sea.
Housing of black polyamid, glass fibre reinforced, IP56, with **P28s** lampholder.
Without light source.

Series 760 have got the following approvals: BSH, GL, UL 1104, MED (Wheelmark)



Cat.No.	Single type (sectional) serie 760	Colour
715306	Starboard	green
715308	Portlight	red
715310	Masthead	white
715312	Stern light	grey
715316	Towing light	yellow

Cat.No.	Single type (all round) serie 760	
715320	Signal light (anchor light)	white
715324	Signal light	green
715322	Signal light (not under command light)	red



Cat.No.	Double type (sectional) serie 760	
715338	Starboard	green
715340	Portlight	red
715342	Masthead	white
715344	Stern light	grey
715345	Towing light	yellow

Cat.No.	Double type (all round) serie 760	
715346	Signal light (anchor light)	white
715350	Signal light (not under command light)	red
715352	Signal light	green

Spare parts for navigation lights



Cat.No.	Description
715441	Lampholder P28s
715415	Lens red for old serie 700/740
103492	Navigation lamp 24 V 40 W 50 CD P28s
103494	Navigation lamp 48 V 65 W 50 CD P28s
103496	Navigation lamp 110 V 65 W 50 CD P28s
103498	Navigation lamp 220 V 65 W 50 CD P28s



WIRING ACCESSORIES FOR MARINE USE

Switches outdoor

	Cat.No.	Material		Ampere	Connection	IP-rating	Fig.
 1	742109	Synthetic resin	double-pole	10	0-	IP56	1
	742110	Brass	double-pole HNA	10	0-	IP56	2
	742113	Synthetic resin	double-pole	10	0=	IP56	3
	742114	Brass	double-pole HNA	10	0=	IP56	4
	742117	Synthetic resin	double-pole	10	-0-	IP56	5
 2	742118	Brass	double-pole HNA	10	-0-	IP56	6
	742124	PVC	double-pole	10	-0-	IP44	7
	742128	Synthetic resin	double-pole	10	0=	IP56	Japanese 8
	742130	Polypropylene	double-pole	10	+	IP66/67	
	742147	Pushbutton switch, synthetic resin, 1 NO, 0-				IP56	9
	742150	Pushbutton switch HNA, brass, 1 NO + 1 NC, 16 A 0-				IP56	10










Switch interiors

Cat.No.	Description	Fig.
742196	Two-way, for brass switches HNA	1
742208	Double-pole, for brass switches HNA	1
742220	Double-pole, for American and Japanese switches 742128 USCG	2
742240	Knobs for switch interior and switches cat.no. 742109 - 742118	



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American plugs and accessories

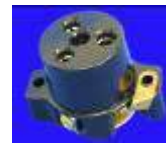
Cat.No.	Description	Fig.
742510	Plug type Oceanic, 2-pole	1
742540	Plug type Russel & Stoll, 2-pole and earth, 15A USCG	2
742550	Interior for plug cat.no. 742540	
743550	Interior for Russel & Stoll receptacles 2-pole and earth USCG	3



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WIRING ACCESSORIES FOR MARINE USE

Ceeform plugs, IP44



Cat.No.	Volt	Poles	Ampere	Hours
742570	24	2	16	
742576	24	3	16	
742581	42	2	16	12
742590	42	3	16	12
742596	110	3	16	4
742612	220	3	16	6
742618	220	3	32	6
742634	380/415	4	16	6
742640	380/415	4	32	6
742652	380/415	5	16	6
742658	380/415	5	32	6

Ceeform plugs, IP67, earth pin on 6h



Cat.No.	Volt	Poles	Ampere
742710	220	3	16
742716	220	3	32
742722	220	3	63
742732	380/415	4	16
742738	380/415	4	32
742744	380/415	4	63
742750	380/415	4	125
742756	380/415	5	16
742762	380/415	5	32
742768	380/415	5	63
742774	380/415	5	125

Ceeform plugs for reefer container service, earth pin on 3h



Cat.No.	Description
742806	Moulded compound, 380/440V, 3-pole and earth, 32A, IP67
742812	Brass, 380/440V, 3-pole and earth, 32A, IP56

WIRING ACCESSORIES FOR MARINE USE

Ceeform couplings, IP44



Cat.No.	Volt	Poles	Ampere	Hours
743310	24	2	16	
743314	24	3	16	
743316	42	2	16	12
743318	42	3	16	12
743322	110	3	16	4
743326	220	3	16	6
743328	220	3	32	6
743336	380/415	4	16	6
743338	380/415	4	32	6
743346	380/415	5	16	6
743348	380/415	5	32	6

Ceeform couplings, IP67, earth pin on 6h



Cat.No.	Volt	Poles	Ampere
743420	220	3	16
743422	220	3	32
743424	220	3	63
743432	380/415	4	16
743434	380/415	4	32
743436	380/415	4	63
743438	380/415	4	125
743446	380/415	5	16
743448	380/415	5	32
743450	380/415	5	63
743458	380/415	5	125

Ceeform couplings for reefer container service, earth pin on 3h



Cat.No.	Description
743480	Moulded compound, 380/440V, 3-pole and earth, 32A, IP67

WIRING ACCESSORIES FOR MARINE USE

Ceeform receptacles, IP44



Cat.No.	Volt	Poles	Ampere	Hours
743620	24	2	16	
743624	24	3	16	
743629	42	2	16	12
743632	42	3	16	12
743637	110	3	16	4
743640	220	3	16	6
743642	220	3	32	6
743652	380/415	4	16	6
743654	380/415	4	32	6
743664	380/415	5	16	6
743666	380/415	5	32	6

Ceeform receptacles, IP67, earth pin on 6h



Cat.No.	Volt	Poles	Ampere
743710	220	3	16
743712	220	3	32
743722	380/415	4	16
743724	380/415	4	32
743726	380/415	4	63
743728	380/415	4	125
743736	380/415	5	16
743738	380/415	5	32
743740	380/415	5	63
743742	380/415	5	125

Ceeform appliance receptacles (with pins) earth on 6h



Cat.No.	Volt	Poles	Ampere	
743810	220	3	16	IP44
743814	220	3	32	IP44
743822	380/415	4	16	IP44
743824	380/415	4	32	IP44
743830	380/415	5	16	IP44
743832	380/415	5	32	IP44
743860	220	3	63	IP67
743868	380/415	4	63	IP67
743876	380/415	5	63	IP67

WIRING ACCESSORIES FOR MARINE USE

Ceeform receptacles for reefer container service, 3h

Cat.No.	Description	Fig.
743910	Moulded compound, 380/440V, 3-pole and earth, 32A, IP67	1
743920	Brass, 380/440V, 3-pole and earth, 32A, IP56	2
743930	Moulded compound, flush, 380/440V, 3-pole and earth, 32A, IP67	3



1



2



3

Accessories for Ceeform material



1

742870	Interior for brass Ceeform plugs 380/440V, 3-pole and earth, 32A, 3h cat.no. 742812	1
--------	---	---

742880 Wrench for cat.no. 742870

744120	Receptacle interior for brass Ceeform receptacles 3-pole and earth, 32A, 3h, cat.no. 743920 also suitable for the Varitain system	2
--------	--	---



2

744138 Brass screw ring for interiors cat.no. 742870 and 744120

744146	Switch interior for brass Ceeform receptacles 3-pole and earth, 32 A, 3h, cat.no. 743920	3
--------	--	---

744154 Knob for cat.no. 744146

744162	Moulded compound screw cap with chain for receptacles cat.no. 743920	4
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744170	Wrench for receptacles cat.no. 743920	5
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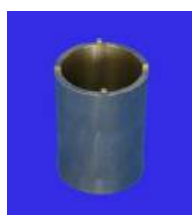
747365	Reefer extension cables, 25 mtrs length with plug and coupling 380/440V, 3-pole and earth 32A, 3h	6
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3



4



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6

Spare part Wiska VARITAIN PushIn

Cat.No.	Description
743940	Socket modul complete with LED for switching status and Wiska MCCB 25kA, SP-VARI-PI/SM/LED/25kA/NUTS

WIRING ACCESSORIES FOR MARINE USE

Concentric wiring accessories

Cat.No.	Description	IP-rating	Fig.
742934	Plug, PVC with brass locking ring, 2-pole, 10A for socket cat.no. 744300 and 744302	IP56	1
742940	Coupling, PVC, 2-pole, 6A for cat.no. 742934	IP56	
744300	Receptacle brass, 2-pole, 6A, 0-	IP56	2
744420	Interior for receptacle cat.no. 744300/302		3



1



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British wiring accessories



1

Cat.No.	Description	IP-rating	Fig.
742970	Plug, Niphan type, 2-pole and earth, 5A for Aldis signalling lamps	IP65	1
744450	Receptacle, Niphan type, 2-pole and earth, 5A for Aldis signalling lamps	IP65	2



2

Plugs and couplings, HNA (German)



1



2

Cat.No.	Description	IP-rating	Fig.
743010	Plug, brass 2-pole and earth, 10A	IP56	1
743012	Plug, moulded compound 2-pole and earth 10A	IP56	2
743018	Plug, locking type with hole in screw collar , moulded compound, 2-pole and earth, 16A, for receptacle cat.no. 744642	IP56	3
743024	Plug, brass, 4-pole for telephone use, 10A	IP56	4
743030	Plug, moulded compound, 4-pole and earth for 42V, 10A	IP56	
743036	Coupling, moulded compound, 2-pole and earth 16A	IP56	
743038	Coupling, brass, 2-pole and earth, 16A	IP56	5



3



4



5

WIRING ACCESSORIES FOR MARINE USE

Receptacles, HNA (German)



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6

Cat.No.	Description	Amp	Connection	Remark	IP-rating	Fig.
744609	2-pole and earth	10	-0	synthetic resin	IP56	1
744610	2-pole and earth	10	-0	brass	IP56	
744615	2-pole and earth	10	0-	synthetic resin	IP56	
744616	2-pole and earth	10	0-	brass	IP56	2
744621	2-pole and earth	10	=0	synthetic resin	IP56	
744622	2-pole and earth	10	=0	brass	IP56	
744627	2-pole and earth	10	0=	synthetic resin	IP56	3
744628	2-pole and earth	10	0=	brass	IP56	
744633	2-pole and earth	10	-0-	synthetic resin	IP56	
744634	2-pole and earth	10	-0-	brass	IP56	4
744642	2-pole and earth	10	-0	brass, locking type for plug cat.no. 743018	IP56	5
744666	4-pole and earth	10	-0 and 0-	for 42V	IP56	
744674	2-pole and earth	10	-0-	Receptacle for 2 plugs	IP56	7
744682	2-pole and earth	10	-0-	Receptacle for 3 plugs	IP56	8



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8

WIRING ACCESSORIES FOR MARINE USE

Receptacles with switch, HNA (German)



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Cat.No.	Description	Amp	Connection	Remark	IP-rating	Fig.
744709	2-pole and earth	10	-0	synthetic resin	IP56	1
744710	2-pole and earth	10	-0	brass	IP56	
744715	2-pole and earth	10	0-	synthetic resin	IP56	
744716	2-pole and earth	10	0-	brass	IP56	
744721	2-pole and earth	10	=0	synthetic resin	IP56	2
744722	2-pole and earth	10	=0	brass	IP56	
744727	2-pole and earth	10	0=	synthetic resin	IP56	3
744728	2-pole and earth	10	0=	brass	IP56	
744733	2-pole and earth	10	-0-	synthetic resin	IP56	
744734	2-pole and earth	10	-0-	brass	IP56	

Accessories for HNA plugs, couplings and receptacles



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4

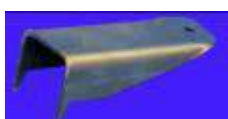
Cat.No.	Description	Fig.
743084	Interior 110V, 3 round pins for plug	1
743086	Interior 220V, 2 round pins and earth pin with groove for plug	2
743090	Interior 4-pole, for plug cat.no. 743024	3
744810	Interior for 110V, 3 round bushes, for coupling and receptacle	
744814	Interior for 220V, 2 round and bush for grooved earth pin, for coupling and receptacle	4
744818	Interior 4-pole for receptacle cat.no. 744650 and 744658	
744822	Interior 5-pole for receptacle cat.no. 744666	5
743120	Makrolon screw rings for interiors	
743122	Conical gasket for interiors	6
743126	Rubber gasket for covers of receptacles	7
743132	Wrench for interiors	
743136	Brass screw cap with chain for receptacles and couplings	8
743137	Moulded compound screw cap with chain for receptacles and couplings	9



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9

WIRING ACCESSORIES FOR MARINE USE

Japanese plugs and accessories



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2

Cat.No.	Description	IP-rating	Fig.
743176	Moulded compound, straight, 2-pole and earth	IP56	1
743180	Metal, straight, 2-pole and earth	IP56	
743184	Moulded compound, angle, 2-pole and earth	IP56	2
743196	Moulded compound, straight, 3-pole and earth	IP56	
743198	Moulded compound, angle, 3-pole and earth	IP56	3
743220	Interior 2-pole and earth, for plugs cat.no. 743180 and 743184		4



3



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Japanese receptacles



1

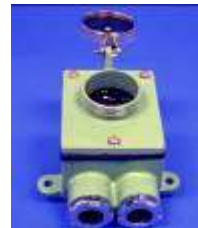


2

Cat.No.	Description	IP-rating	Fig.
744912	Metal, 2-pole and earth, 0=	IP56	1
744918	Phenol, 2-pole and earth, 0=	IP56	2
744926	Twin receptacle, phenol, 2-pole and earth, 0=	IP56	3
744936	Phenol, 3-pole and earth, 0=	IP56	
744960	Metal, 2-pole and earth, 15A, (USCG) 0=	IP56	4



3



4

WIRING ACCESSORIES FOR MARINE USE

Japanese receptacles with switch and accessories



1

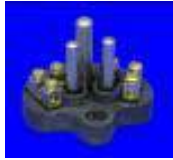
Cat.No.	Description	IP-rating	Fig.
747110	Metal, 2-pole and earth 0=	IP56	
747116	Phenol, 2-pole and earth 0=	IP56	1
747126	Metal, 2-pole and earth, (USCG) 0=	IP56	2
747140	Phenol, twin-type, 2-pole and earth 0=	IP56	3
747206	Interior 2-pole and earth for cat.no. 744912, 744926, 747110, 747116 and 747140	IP56	4



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4

Receptacles, European, 'Schuko', with hinged cover

Cat.No.	Description	IP-rating	Fig.
744510	PVC, 2-pole and earth, 10A	IP44	1
744518	PVC, two-way, 2-pole and earth, 10A	IP44	2



1



2

WIRING ACCESSORIES FOR MARINE USE

Junction boxes



1



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4

Cat.No.	Description	IP-rating	Fig.
747309	Synthetic resin, -0-	IP56	
747310	Brass, -0-	IP56	1
747311	Synthetic resin, 0=	IP56	2
747312	Brass, 0=	IP56	
747313	Synthetic resin, -0=	IP56	
747314	Brass, -0=	IP56	3
747315	Synthetic resin, T	IP56	
747316	Brass, T	IP56	4
747317	Synthetic resin, =0=	IP56	5
747318	Brass, =0=	IP56	
747319	Synthetic resin, +	IP56	
747320	Brass, +	IP56	6
747326	Synthetic terminal block with 4 terminals for junction boxes		7
747328	Polypropylene, +, Wiska combi mar 304	IP66/67	
747332	Moulded compound with 7 breakable entries and 3 glands PG16 (cat.no. 282322)	IP55	8
747340	Thermoplastic, 150 x 110 x 70 h. mm		
747346	Thermoplastic, 190 x 140 x 70 h. mm		
747352	Thermoplastic, 190 x 140 x 140 h. mm		9
747354	Steel, IP66, 200 x 200 x 120 h. mm		
747358	Thermoplastic, 300 x 220 x 120 h. mm		
747372	Metal fixing plate for cat.no. 747346 and 747352		
747374	Metal fixing plate for cat.no. 747354		10
747376	Metal fixing plate for cat.no. 747358		10
747410	Key no. 5 for Rittal junction boxes		11
747414	Universal enclosures key		12



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11



12

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Our latest brass product news: Ex multipurpose fixture 525 – the Ex de protection allows it to choose lamps flexibly according to the requirements at hand. The Ex-525 withstands vibration, shock, saltwater, is UV resistant and watertight (IP66 / 67).



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see page 203

EXPLOSION-PROOF EQUIPMENT

Ex-protected light fittings, IP66 For regular Bi-pin FL tubes, Atex approved

Cat.No.	Description
765124	110-254V AC/DC 2 x 18 W zone 2 and 21-22
765126	110-254V AC/DC 2 x 36 W zone 2 and 21-22
765101	Shade (2x18 W) for cat.no. 765124
765103	Shade (2x36 W) for cat.no. 765126



LED luminaire for hazardous areas CEAG Exlin (IK08)

Cat.No.	Description	Watt	Lumen	CCT		Volt	Length	Fig.
137000	Luminaire with LED ExLin 3L-1 zone 1-2 and 21-22	22	3000	5000K	IP66/67	110-277V AC/DC	77cm	1
137010	Luminaire with LED Exlin 5L-2 zone 1-2 and 21-22	44	5000	5000K	IP66/67	110-277V AC/DC	93.1cm	2



1



2

Rubber portable explosion-proof handlamps



3

Cat.No.	Description	Fig.
762120	Spare globe 99 x 140 mm for cat.no. 762100	
762140	Handlamp with E27 lampholder, suitable for incandescent lamp, 230V, max. 60W, ATEX II 2G Ex d e IIA T3, IP54	3

Explosion-proof brass fixtures. Protection category: IP66/67, Atex approved



1

Cat.No.	Description
762181	Fixture for GLS 60W, CFL 15W and LED 9W, E27 -0- Atex approved, type 525/D zone 1
762201	Spare globe with guard for cat.no. 762181
762209	Spare E27 lampholder for cat.no. 762181
762215	Brass stop end M24 x 1.5, can be used when only 1 cable entry is used instead of 2 cable entries

Fig.

1



2

2

EXPLOSION-PROOF EQUIPMENT

Explosion-proof fixtures up to 200W, flameproof enclosed, brass/red brass casing and glass ring with thread, brass wire guard, complete with E27 lampholder.

Temperature class: incandescent lamp 200W: T3, high pressure mercury vapour lamp 125W: T3, 80W: T4, blended light lamp 160W: T3, compact fluorescent lamp 23W: T6, EN 50 014, 50 018, 50 0191977 Zone 1 Atex approved

Cat.No.	Description
762232	Complete fixture max. 200W E27
762215	Brass stop end M24 x 1.5, can be used when only 1 cable entry is used instead of 2 cable entries
762245	Glass with guard for cat.no. 762232



Explosion-proof floodlights

Cat.No.	Description
765226	Floodlight with E40 lampholder for double-envelope tungsten halogen (iodine) lamps, 120-240V 500W Atex Zone 2, IP67



Other types of the Aqua Signal product assortment available on request

Explosion-proof brass switches. Protection category: IP66

Explosion category: Eex de IIC T6 Atex approved

Cat.No.	Description	Fig.
762410	2-pole, 16A, 250VAC, 0-	1
762412	2-pole, 16A, 250VAC, 0=	
762414	2-pole, 16A, 250VAC, -0-	2
762215	Brass stop end M24 x 1.5, can be used when only 1 cable entry is used instead of 2 cable entries	
762210	Interior 2-pole for switch 762410, 12 and 14	3



1



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3

EXPLOSION-PROOF EQUIPMENT

Explosion-proof CEE-plugs, protection category: IP66

Explosion category: Eex de IIC T6, max. 240VAC Atex approved

Cat.No.	Description
762440	Brass, 2-pole and earth 16A
762450	Interior for cat.no. 762440

Fig.
1
2



1



2

Explosion-proof CEE-receptacles, protection category: IP66

Explosion category: Eex de IIC T 6 Atex approved



Cat.No.	Description
762460	Brass, 2-pole and earth, 16A, max. 240 VAC, -0
762215	Brass stop end M24 x 1.5, can be used when only 1 cable entry is used instead of 2 cable entries
762470	Interior for cat.no. 762460

Explosion-proof brass junction boxes with cable glands M 24 x 1.5

Protection category: IP56, explosion category: EEx e II T 6 Atex approved



Cat.No.	Description
762480	With gland position =0
762482	With gland position -0-
762484	With gland position -0=
762486	With gland position =0=
762215	Brass stop end M24 x 1.5, can be used when only 1 cable entry is used instead of 2 cable entries

FUSES

Glass fuses, quick-acting, 15 x 5 mm, in boxes of 10 pcs



Cat.No.	Ampere
822053	0.16
822055	0.2
822057	0.25
822059	0.315
822061	0.4
822063	0.5
822065	0.63
822067	0.8
822069	1
822071	1.25
822073	1.6
822075	2
822077	2.5
822079	3.15
822081	4
822083	5
822085	6.3

Glass fuses, 20 x 5 mm, in boxes of 10 pcs



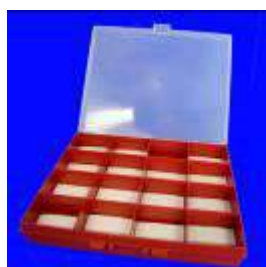
Ampere	Quick	Slow
0.05	822100	822220
0.1	822104	822224
0.125	822108	822228
0.16	822112	822232
0.2	822116	822236
0.25	822120	822240
0.315	822124	822244
0.4	822128	X
0.5	822132	822248
0.63	822136	822252
0.7	822140	822256
0.8	822144	822260
1	822148	822264
1.25	822152	822268
1.6	822156	822272
2	822160	822276
2.5	822164	822280
3.15	822168	822284
4	822172	822288
5	822176	822292
6.3	822180	822296
8	822184	822300
10	822188	822304
16	822192	822308
20	822196	322812

FUSES

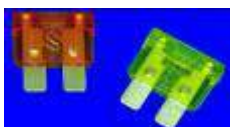
Accessories for glass fuses 20 x 5 mm



Cat.No.	Description
822325	Assortmentbox with 240 glass fuses 20 x 5 mm
822330	Fuse holder, panel mounting



Car fuses, 18.5 x 4.5 x 20 mm



Cat.No.	Ampere	Colour
822337	2	grey
822338	3	violet
822340	5	amber
822342	7.5	brown
822344	10	red
822346	15	blue
822348	20	yellow
822350	25	transparent
822352	30	green

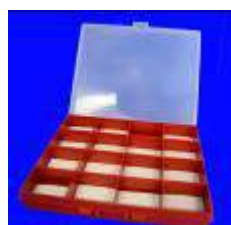
FUSES

Glass fuses, 25 x 5 mm, in boxes of 10 pcs



Ampere	Fast	Medium
1	822360	822440
1.25	X	822442
2	822366	822446
3.15	822372	822452
4	822378	822458
5	822384	822464
6.3	822390	822470
10	822396	822476

Accessories for glass fuses 25 x 5 mm



822480 Assortment box with 150 glass fuses
25 x 5 mm

Fuses with indicator, 25 x 5 mm



Cat.No.	Ampere		Material
822520	0.5	slow-acting	glass
822526	0.63	slow-acting	glass
822532	0.8	slow-acting	ceramic
822538	1	slow-acting	ceramic
822544	2	quick-acting	ceramic
822550	2.5	quick acting	ceramic
822556	3.15	quick acting	ceramic
822562	4	quick-acting	ceramic
822568	5	quick-acting	ceramic
822574	6.3	quick-acting	ceramic
822580	10	quick-acting	ceramic

Car fuses, 25 mm length



Cat.No.	Ampere
822660	5
822664	8
822668	16
822672	25

FUSES

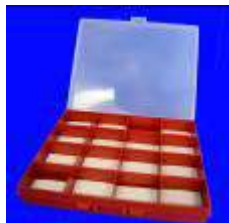
Glass fuses, 32 x 6.3 mm, in boxes of 10 pcs



Ampere	Quick	Slow
0.1	822704	822810
0.2	822708	822814
0.25	822712	822818
0.315	822716	822822
0.5	822720	822826
0.63	822724	822830
0.8	822728	822834
1	822732	822838
1.6	822736	822842
2	822740	822846
2.5	822744	822850
3.15	822748	822854
4	822752	822858
5	822756	822862
6.3	822764	822870
7	822768	822874
8	822772	822878
10	822776	822882
16	822780	822886
20	822784	822890
25	822788	822894
30	822792	822898
35	822796	822304

Accessories for glass fuses 32 x 6.3 mm

Cat.No.	Description
822940	Assortmentbox with 150 glass fuses 32 x 6.3 mm
822950	Fuse holder, panel mounting



FUSES

Porcelain fuses, quick-acting (GI), 32 x 8 mm



Cat.No.	Ampere
824040	0.5
824042	1
824044	2
824046	4
824048	6
824050	8
824052	10
824054	12
824056	16
824058	20

Fuses for Fluke testers



Cat.No.	Description
824103	Fuse 440mA, 10.3 x 34.9 mm for Fluke tester 75, 85, 87, 863 and 867
824106	Fuse 1A, 10.3 x 34.9 mm for Fluke tester 75, 77, 21 and 23
824109	Fuse 11A, 10.3 x 38.1 mm for Fluke tester 26, 70, 73, 83, 85, and 87
824112	Fuse 15A, 10.3 x 38.1 mm for Fluke tester 73, 75 77, 79, 21, 23, 29, 83, 85 and 87

Porcelain fuses, 38 x 10 mm



Ampere	Quick (GI)	Slow (AM)
0.5	824200	824240
1	824202	824244
2	824204	824248
4	824208	824252
6	824210	824256
8	824212	824260
10	824214	824264
12	824216	824268
16	824218	824272
20	824220	824276
25	824222	824280
32	824224	824284

FUSES

Porcelain fuses, 51 x 14 mm



Ampere	Quick (GI)	Slow (AM)
1	824348	X
2	824350	824400
3	824351	X
4	824352	824404
6	824354	824408
8	824356	824412
10	824358	824416
12	824360	824420
16	824362	824424
20	824364	824428
25	824366	824432
32	824368	824436
40	824370	824440
50	824372	824444

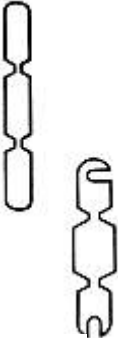
Porcelain fuses, 58 x 22 mm



Ampere	Quick (GI)	Slow (AM)
4	824504	824550
6	824506	824552
8	X	824554
10	824510	824556
12	824512	824558
16	824514	824560
20	824516	824562
25	824518	824564
32	824520	824566
40	824522	824568
50	824524	824570
63	824526	824572
80	824528	824574
100	824530	824576
125	824532	824578

FUSES

Links for renewable fuses

	Cat.No.	Ampere	Volt
	824747	35	250
	824748	40	250
	824749	45	250
	824750	50	250
	824751	60	250
	824752	70	250
	824753	80	250
	824755	100	250
	824757	160	250
	824758	200	250
	824759	225	250
	824760	250	250
	824762	350	250
	824763	400	250
	824790	4	600
	824794	10	600

Fuse puller for tubular fuses

Cat.No.	Description
824820	Fuse puller for tubular fuses



FUSES

HRC cartridge fuses, British standard

	Cat.No.	Ampere	Type	Dimensions	Fixing center	Fig.
 1	827100	13	25 x 6.3	for English fused plug		1
	827132	25	OP	32 x 14		2
	827180	20	SS	51 x 13	49	3
 2	827182	25	SS	51 x 13	49	3
	827220	2	NIT	53 x 13	44	4
	827222	4	NIT	53 x 13	44	4
	827224	6	NIT	53 x 13	44	4
 3	827230	20	NIT	53 x 13	44	4
	827232	25	NIT	53 x 13	44	4
	827274	6	NS	60 x 13		3
	827278	15	NS	60 x 13		3
 4	827316	2	TIA	85 x 22	73	4
	827318	4	TIA	85 x 22	73	4
	827320	6	TIA	85 x 22	73	4
	827322	10	TIA	85 x 22	73	4
	827326	20	TIA	85 x 22	73	4
 5	827328	25	TIA	85 x 22	73	4
	827330	32	TIA	85 x 22	73	4
	827372	40	TIS	86 x 22	73	4
	827376	60	TIS	86 x 22	73	4
 6						

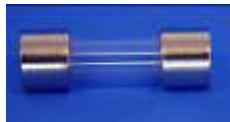
FUSES

Fuse elements for Japanese Cello-lite fuses



Cat.No.	Ampere	Dimensions without blades
827720	1	42 x 8 mm
827722	2	42 x 8 mm
827724	3	42 x 8 mm
827726	5	42 x 8 mm
827728	10	42 x 8 mm
827730	15	42 x 8 mm
827732	20	42 x 8 mm
827734	25	42 x 8 mm
827736	30	42 x 8 mm
827738	40	65 x 11 mm
827740	50	65 x 11 mm
827742	60	65 x 11 mm

Fuse holders for Japanese Cello-lite fuses



Cat.No.	Ampere	Dimensions
827780	1 - 30	50 x 13 mm (NC 1)
827782	40 - 60	75 x 18 mm (NC 2)

Fuse bases for Japanese Cello-lite fuses



Cat.No.	Ampere	Description
827790	1 - 30	Fuse base with 2 clamps (NC 1)
827792	40 - 60	Fuse base with 2 clamps (NC 2)

Fuse wire, rolls



Cat.No.	Ampere
827820	1
827822	3
827824	5
827826	10
827828	15
827830	20
827832	25
827834	30
827836	35
827838	50
827840	60

FUSES

Neozed fuses, quick-acting



Cat.No.	Ampere	Type	Dimensions
828000	2	D01	36 x 11 mm
828002	4	D01	36 x 11 mm
828004	6	D01	36 x 11 mm
828006	10	D01	36 x 11 mm
828008	16	D01	36 x 11 mm
828010	20	D02	36 x 15 mm
828012	25	D02	36 x 15 mm
828014	35	D02	36 x 15 mm
828016	50	D02	36 x 15 mm
828018	63	D02	36 x 15 mm

Ndz fuses, quick-acting



Cat.No.	Ampere	Dimensions
828050	2	50 x 13 mm
828052	4	50 x 13 mm
828054	6	50 x 13 mm
828056	10	50 x 13 mm
828058	16	50 x 13 mm
828060	20	50 x 13 mm
828062	25	50 x 13 mm

Ndz fuses, slow-acting



Cat.No.	Ampere	Dimensions
828070	2	50 x 13 mm
828072	4	50 x 13 mm
828074	6	50 x 13 mm
828076	10	50 x 13 mm
828078	16	50 x 13 mm
828080	20	50 x 13 mm
828082	25	50 x 13 mm

Mignon diazed fuses, quick-acting



Cat.No.	Ampere	Type	Dimensions
828090	2	D1	34 x16 mm
828092	4	D1	34 x16 mm
828094	6	D1	34 x16 mm
828096	10	D1	34 x16 mm
828098	16	D1	34 x16 mm

FUSES

Diazed fuses, quick-acting



Cat.No.	Ampere	Type	Dimensions
828110	2	D2	50 x 22 mm
828112	4	D2	50 x 22 mm
828114	6	D2	50 x 22 mm
828116	10	D2	50 x 22 mm
828118	16	D2	50 x 22 mm
828120	20	D2	50 x 22 mm
828122	25	D2	50 x 22 mm
828124	35	D3	50 x 27 mm
828126	50	D3	50 x 27 mm
828128	63	D3	50 x 27 mm
828130	80	D4	64 x 34 mm
828132	100	D4	64 x 34 mm
828134	125	D5	66 x 47 mm

Diazed fuses, super-quick-acting



Cat.No.	Ampere	Type	Dimensions
828150	2	D2	50 x 22 mm
828152	4	D2	50 x 22 mm
828154	6	D2	50 x 22 mm
828156	10	D2	50 x 22 mm
828158	16	D2	50 x 22 mm
828160	20	D2	50 x 22 mm
828162	25	D2	50 x 22 mm
828164	35	D3	50 x 27 mm
828166	50	D3	50 x 27 mm
828168	63	D3	50 x 27 mm

Diazed fuses, slow-acting



Cat.No.	Ampere	Type	Dimensions
828180	2	D2	50 x 22 mm
828182	4	D2	50 x 22 mm
828184	6	D2	50 x 22 mm
828186	10	D2	50 x 22 mm
828188	16	D2	50 x 22 mm
828190	20	D2	50 x 22 mm
828192	25	D2	50 x 22 mm
828194	35	D3	50 x 27 mm
828196	50	D3	50 x 27 mm
828198	63	D3	50 x 27 mm
828200	160	D5	66 x 47 mm

FUSES

Bottom screws

	Cat.No.	Ampere	Colour
	828306	2-6	green
	828308	10	red
	828310	16	grey
	828312	20	blue
	828314	25	yellow
	828316	35	black
	828318	50	white
	828320	63	gold
	828330	Bottom screw wrench for 2 till 63A (D2 and D3)	

Fuse bases

Cat.No.	Ampere	Type	Thread
828350	25	D2	E27
828356	63	D3	E33



Screw caps

	Cat.No.	Type	Thread
	828376	KN2	E16
	828388	K2	E27
	828392	K3	E33
	828396	K4	R1 ¼ "



FUSES

Knife blade fuses, DIN-size 00



Cat.No.	Ampere	Overall length
828506	6	78 mm
828508	10	78 mm
828510	16	78 mm
828512	20	78 mm
828514	25	78 mm
828516	35	78 mm
828518	50	78 mm
828520	63	78 mm
828522	80	78 mm
828524	100	78 mm
828526	125	78 mm
828528	160	78 mm

Knife blade fuses, DIN-size 0



Cat.No.	Ampere	Overall length
828560	16	125 mm
828562	20	125 mm
828564	25	125 mm
828566	32	125 mm
828568	35	125 mm
828570	40	125 mm
828572	50	125 mm
828574	63	125 mm
828576	80	125 mm
828578	100	125 mm
828580	125	125 mm
828582	160	125 mm

Knife blade fuses, DIN-size I



Cat.No.	Ampere	Overall length
828630	35	133 mm
828632	50	133 mm
828634	63	133 mm
828636	80	133 mm
828638	100	133 mm
828640	125	133 mm
828642	160	133 mm
828644	200	133 mm
828646	224	133 mm
828648	250	133 mm

FUSES

Knife blade fuses, Din-size II



Cat.No.	Ampere	Overall length
828710	80	150 mm
828712	100	150 mm
828714	125	150 mm
828716	160	150 mm
828718	200	150 mm
828720	225	150 mm
828722	250	150 mm
828724	315	150 mm
828725	355	150 mm
828726	400	150 mm

Knife blade fuses, Din-size III



Cat.No.	Ampere	Overall length
828750	315	150 mm
828752	355	150 mm
828754	400	150 mm
828756	425	150 mm
828758	500	150 mm
828760	630	150 mm

Accessories for knife blade fuses



Cat.No.	Description
828870	Fuse holder for knife blade fuses Din-size 00
828878	Fuse holder for knife blade fuses Din-size 0 to 1
828890	Fuse puller for knife blade fuses Din-size 000 till 4



CIRCUIT BREAKERS

Circuit breakers, 1-pole, B-type tripping characteristic



Cat.No.	Ampere
842102	6
842104	10
842106	16
842108	20
842110	25

Circuit breakers, 2-pole, B-type tripping characteristic



Cat.No.	Ampere
842202	6
842204	10
842206	16
842208	20
842210	25
842212	32

Circuit breakers, 3-pole, B-type tripping characteristic



Cat.No.	Ampere
842302	6
842304	10
842306	16
842308	20
842310	25
842312	32

Circuit breakers, 1-pole, C-type tripping characteristic



Cat.No.	Ampere
842320	6
842322	10
842324	16
842326	20
842328	25

Circuit breakers, 2-pole, C-type tripping characteristic



Cat.No.	Ampere
842330	6
842332	10
842334	16
842336	20
842338	25
842340	32

CIRCUIT BREAKERS

Circuit breakers, 3-pole, C-type tripping characteristic



Cat. No.	Ampere
842342	6
842344	10
842346	16
842348	20
842350	25
842352	32

Circuit breakers type Compact, make Merlin Gerin



Cat.No.	Ampere	Type	kA	Pole	Height (mm)	Width (mm)	Depth (mm)
842503	100	NS 100N	25	3	161	105	111
842505	100	NS 100H	70	3	161	105	111
842507	100	NS 100L	150	3	161	105	111
842509	100	NS 100N	25	4	161	140	111
842511	100	NS 100H	70	4	161	140	111
842513	100	NS 100L	150	4	161	140	111
842515	160	NS 160N	36	3	161	105	111
842517	160	NS 160H	70	3	161	105	111
842519	160	NS 160L	150	3	161	105	111
842521	160	NS 160N	36	4	161	140	111
842523	160	NS 160H	70	4	161	140	111
842525	160	NS 160L	150	4	161	140	111
842527	250	NS 250N	36	3	161	105	126
842529	250	NS 250H	70	3	161	105	126
842531	250	NS 250L	150	3	161	105	126
842533	250	NS 250N	36	4	161	140	126
842535	250	NS 250H	70	4	161	140	126
842537	250	NS 250L	150	4	161	140	126
842539	400	NS 400N	45	3	255	140	168
842541	400	NS 400H	70	3	255	140	168
842543	400	NS 400L	150	3	255	140	168
842545	400	NS 400N	45	4	255	185	168
842547	400	NS 400H	70	4	255	185	168
842549	400	NS 400L	150	4	255	185	168
842551	630	NS 630N	45	3	255	140	168
842553	630	NS 630H	70	3	255	140	168
842555	630	NS 630L	150	3	255	140	168
842557	630	NS 630N	45	4	255	185	168
842559	630	NS 630H	70	4	255	185	168
842561	630	NS 630L	150	4	255	185	168

Auxiliary contact for NS circuit breakers

Cat.No.	Type
842680	OF,SD,SDE,SDV

CIRCUIT BREAKERS

Standard protection units for NS circuit breakers

Cat.No.	Type	A range	For cat.no.
842604	TM 16D	12.8 ..16	842503-05-07
842606	TM 16D	12.8 ..16	842509-11-13
842608	TM 25D	20 ..25	842503-05-07
842610	TM 25D	20 ..25	842509-11-13
842612	TM 32D	25.6 ..32	842503-05-07
842614	TM 32D	25.6 ..32	842509-11-13
842616	TM 40D	32 ..40	842503-05-07
842618	TM 40D	32 ..40	842509-11-13
842620	TM 50D	40 ..50	842503-05-07
842622	TM 50D	40 ..50	842509-11-13
842624	TM 63D	50 ..63	842503-05-07
842626	TM 63D	50 ..63	842509-11-13
842628	TM 80D	63 ..80	842503-05-07
842630	TM 80D	63 ..80	842509-11-13
842632	TM 80D	63 ..80	842515-17-19
842634	TM 80D	63 ..80	842521-23-25
842636	TM 100D	80 ..100	842503-05-07
842638	TM 100D	80 ..100	842509-11-13
842640	TM 100D	80 ..100	842515-17-19
842642	TM 100D	80 ..100	842521-23-25
842644	TM 125D	100 ..125	842515-17-19
842646	TM 125D	100 ..125	842521-23-25
842648	TM 160D	128 ..160	842515-17-19
842650	TM 160D	128 ..160	842521-23-25
842652	TM 160D	128 ..160	842527-29-31
842654	TM 160D	128 ..160	842533-35-37
842656	TM 200D	160 ..200	842527-29-31
842658	TM 200D	160 ..200	842533-35-37
842660	TM 250D	200 ..250	842527-29-31
842662	TM 250D	200 ..250	842533-35-37
842664	STR23E	160 ..400	842539..49
842665	STR23E	252 ..630	842551..61

Overcurrent switch-off coils type MX for NS circuit breakers

Cat.No.	Volt
842685	24DC
842686	24AC
842687	100/130AC
842688	200/240AC
842689	380/440AC



CIRCUIT BREAKERS

Undervoltage coils type MN for NS circuit breakers

Cat.No.	Volt
842700	24DC
842701	24AC
842702	100/130AC
842703	200/240AC
842704	380/440AC



PRESSURE CONTROLS

RT pressure controls, ship approved

High repeatability. Interchangeable contact system.

Two cable entries, IP66. Manual or automatic reset.



RT 121



RT 262A / RT 260A

Technical data

Media:	air, gas, liquid		
Media temp.:	-50°C to 150°C, RT113 max. 90° C		
Ambient temp.:	in general: -50° C to 70° C		
Contact system:	SPDT		
Contact load:	AC-1 Ohmic	10A	440V
	AC-3 (motor)	4A	400V
	AC-14/15 (coil. transformer)	3A	400V
	DC-13/14	12W	230V
Connection:	G 3/8" A		

Cat.No.	Setting range (bar)			Adjustable/fixed Differential (bar)			Max. operating pressure (bar)	Type	Code no.
862300	-1	to	0	0.09	to	0.4	7	RT 121	017-521566
862302	0	to	0.3	0.01	to	0.05	0.4	RT 113	017-519666
862304	0.1	to	1.1	0.07	to	0.16	7	RT 112	017-519166
862306	0.2	to	3	0.08	to	0.25	7	RT 110	017-529166
862308	0.2	to	6	0.25	to	1.2	22	RT 200	017-523766
862310	1	to	10	0.15	to	1.3	22	RT 116	017-520366
862312	4	to	17	1.2	to	4	22	RT 5	017-525566
862320	10	to	30	1	to	4	42	RT 117	017-529566

RT differential pressure controls, connection G3/8 A

Cat.No.	Regulation range (bar)			Mechanical Differential (bar)	Operation Range (bar)	Max. operating Pressure (bar)	Type	Code no.
862330	0.01	to	1.5	0.1	-1 to 9	11	RT 262A	017D002566
862336	0.5	to	4	0.3	-1 to 18	22	RT 260A	017D002166

PRESSURE CONTROLS

KPS pressure switches

For harsh environments, very robust construction
 Resistant to shock and vibration, IP67
 Covers most outdoor and indoor applications
 Suitable for alarm and regulation
 Marine approved



Media:	air. gas. liquid		
Ambient temperature:	KPS 31-39: -40° C to 70° C		
Enclosure:	IP67		
Electrical connection:	PG 13.5		
Contact system:	SPDT, gold plated		
Contac load:	AC-1 Ohmic	10A	440V
	AC-3 (motor)	6A	440V
	AC-14/15 (coil, transformer)	4A	440V
	DC-13/14	12W	230V

Connection: G 3/8" A

Cat.No.	Setting range (bar)			Adjustable/fixed Differential (bar)		Permissible operating pressure	Type	Code no.
862380	0	to	2.5		0.01	6	KPS 31	060-310966
862382	0	to	3.5		0.2	10	KPS 33	060-310366
862384	0	to	8	0.4	to 1.5	12	KPS 35	060-310066
862386	6	to	18	0.85	to 2.5	22	KPS 37	060-310166
862388	10	to	35	2.0	to 6	45	KPS 39	060-310266

Connection: 1/4

Cat.No.	Setting range (bar)			Adjustable/fixed Differential (bar)		Permissible operating pressure	Type	Code no.
862392	0	To	2.5		0.01	6	KPS 31	060-311066
862394	0	To	8	0.4	To 1.5	12	KPS 35	060-310566
862396	1	To	10	0.7	To 2.8	120	KPS 43	060-312066
862398	4	To	40	2.2	To 11	120	KPS 45	060-312166
862406	0.2	To	7.5	0.7	To 4	17	KP 1	060-110166
862410	Reg. Left side			0.2	To 7.50	Bar	KP 17WB	060-539766
	Reg. Right side			8	To 32	Bar		
	Diff. Left side			0.7	To 4	Bar		
	Diff. Right side				4	Bar		

PRESSURE CONTROLS

MBC pressure switches

MBCs are compact pressure switches, designed according to our new block design to survive in the harsh conditions known from machine rooms onboard ships.

Ambient temperature:	-10 °C to 85 °C
Contact rating	AC15=0.5 A, 250V
Contact rating	DC13=12 W, 125V
Max test/working pressure	150.0/150.0 bar
Regulatin range	1.00 to 10.00 bar
Pressure connection type	G – 1/4 Female
Enclosure rating	IP 65



Cat.No.	Setting range (bar)			Permissible operating pressure (bar)	Connection	Type	Code no.
862500	0.2	to	10	15	G	MBC 5100	061B010266
862504	1	to	10	150	1/4	MBC 5100	061B110466
862508	1	to	10	150	1/4	MBC 5100	061B100466
862512	1	to	10	150	1/4	MBC 5100	061B110866
862516	5	to	20	150	1/4	MBC 5100	061B100266
862520	5	to	30	45	1/4	MBC 5100	061B000366
862524	5	to	40	150	1/4	MBC 5100	061B100566

MBS pressure transmitter

Designed for use in severe maritime enviroments

Cat.No.	Setting range (bar)			Output signal	Connection	Type	Code no.
862560	0	to	16	4 – 20 mA	1/4	MBS 5100	060N1037



THERMOSTATS, RESISTANCE THERMOMETERS AND THERMOCOUPLES

RT thermostats

High repeatability. Interchangeable contact system
Two cable entries, IP66. Ship approved

Ambient temperature: -50 °C to 70 °C
Enclosure: IP66
Electrical connection: PG 13.5
Contact system: SPDT, gold plated
Contac load: AC-1 Ohmic 10A 440V
AC-3 (motor) 4A 400V
AC-14/15 (coil, transformer) 3A 400V
DC-13/14 12W 230V
Connection: G 3/8" A



RT 4

Standard thermostats

Standard type				Differential type									
Cat.No.	Setting range °C			Adjustable diff. range at lowest range setting °C			Adjustable diff. range at highest range setting °C			Max. sensor temp. °C	Cap. Tube length mtr	Type	Code no.
882110	-5	to	30	1.5	to	7	1.2	to	4	75	room sensor	RT 4	017-503666
882112	10	to	45	1.3	to	7	1	to	5	100	room sensor	RT 103	017-515566
882113	-25	to	15	2	to	10	1	to	14	150	2	RT 7	017-505366
882114	-5	to	30	2	to	8	2	to	10	150	2	RT 14	017-509966
882118	-5	to	30	2	to	8	2	to	10	150	5	RT 14	017-510166
882120	-5	to	30	2	to	8	2	to	10	150	8	RT 14	017-510266
882124	25	to	90	2.4	to	10	3.5	to	20	300	2	RT 101	017-500366
882128	25	to	90	2.4	to	10	3.5	to	20	300	5	RT 101	017-502266
882134	70	to	150	6	to	25	1.8	to	8	215	2	RT 107*	017-513566
882138	70	to	150	6	to	25	1.8	to	8	215	5	RT 107*	017-514066
882144	120	to	215	7	to	30	1.8	to	9	260	2	RT 120*	017-520866
882148	150	to	250	6.5	to	30	1.8	to	9	300	2	RT 123*	017-522066
882150	150	to	250	6.5	to	30	1.8	to	9	300	5	RT 123*	017-522266
882154	200	to	300	5	to	25	2.5	to	10	350	2	RT 124*	017-522766
882156	200	to	300	5	to	25	2.5	to	10	350	5	RT 124*	017-522966

* Partial charge: sensor must not be the coolest part

Differential thermostats

Cat.No.	Mechanical differential °C	Setting range (diff. temp.) °C		Operating range (LT element) °C		Max.sen sor temp. °C	Cap. tube length (m)	Type	Code no.	
882230	2	0	to 15	-30	to 40	65	2 x 5	RT 270	017D003166	
882234	3	0	to 20	20	to 100	200	2 x 10	RT 271	017D004466	

THERMOSTATS, RESISTANCE THERMOMETERS AND THERMOCOUPLES

Sensor pockets with 1/2" BSP ext. connection for thermostats

	Cat.No.	For type	Insert l x d. mm.	Material	Code no.
	882300	RT 3/7/14/26/101/123/270	112 x 11	brass	017-437066
	882310	RT 3/7/14/26/101/123/270	112 x 11	18/8 steel	017-436966
	882320	KPS / CAS	110 x 15	brass	060L327166
	882330	KPS / CAS	110 x 15	18/8 steel	060L326866
	882322	KPS / CAS	65 x 15	brass	060L326566

KPS thermostats

For harsh environments
IP67

Very robust construction
Various approvals

Ambient temperature:

-40°C to 70 °C

Contact load:

AC-1 10A AC-3 6A
AC-15 4A

Cat.No.	Setting range °C			Mech. diff. °C			Max. sensor temp. °C	Cap. Tube length (m)	Type	Fig.	Code no.
882400	20	to	60	3	to	14	130	-	KPS 77	1	060L310066
882404	20	to	60	3	to	14	130	2	KPS 77	2	060L310166
882402	20	to	60	3	to	14	130	2	KPS 77	3	060L310266
882406	50	to	100	4	to	16	200	-	KPS 79	1	060L310366
882408	50	to	100	4	to	16	200	2	KPS 79	2	060L310466
882410	50	to	100	4	to	16	200	2	KPS 79	3	060L310566
882412	70	to	120	4.5	to	18	220	-	KPS 80	1	060L312766
882414	70	to	120	4.5	to	18	220	2	KPS 80	2	060L312866
882416	70	to	120	4.5	to	18	220	2	KPS 80	3	060L312966



1



2

armoured



3

non armoured



4

MBC Thermostat

For use in severe industrial and marine applications

Contact load 0.5 A, 250 V, AC15

Cat.No.	Setting range °C			Max. sensor temp °C	Cap. Tube length (m)	Type	Fig	Code no.
882500	70	to	120	220	2	MBC 8100	4	061B810466

THERMOSTATS, RESISTANCE THERMOMETERS AND THERMOCOUPLES

How to order resistance thermometers

Type: PT 100/0

Design: see pictures

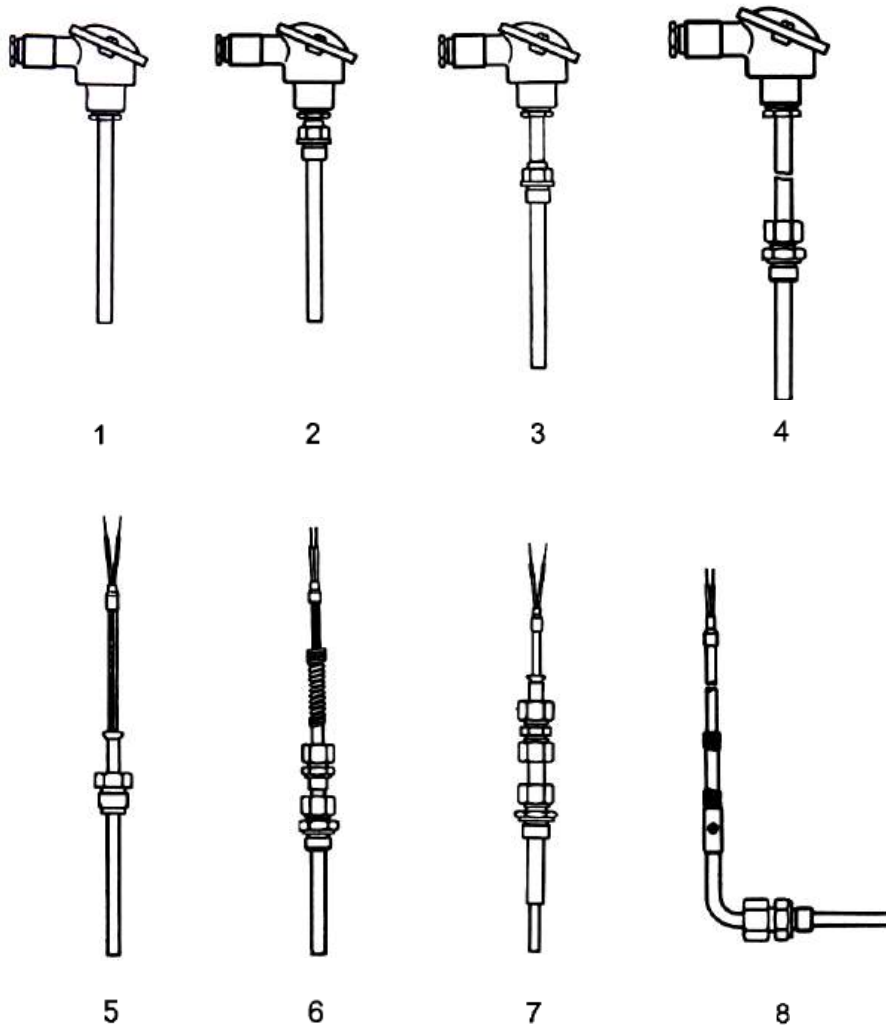
Relevant dimensions: length(s), diameter(s)

Electrical connection: 2, 3, or 4-wire

Cable: length and type: armoured or not armoured

Connection: thread size (BSP or metric)

Further details and/or dimensions, if important



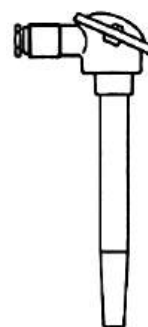
THERMOSTATS, RESISTANCE THERMOMETERS AND
THERMOCOUPLES



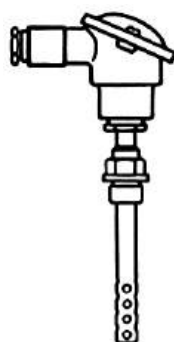
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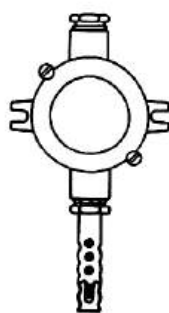
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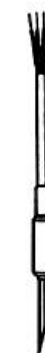
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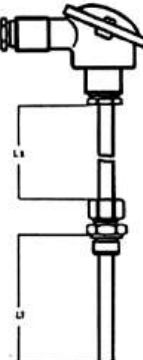


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THERMOSTATS. RESISTANCE THERMOMETERS AND THERMOCOUPLES

Resistance thermometers 1 x Pt100/0 in 3-wire connection.

Stainless steel protection tube. Fitting 1/2" BSP



Cat.No.	Diam. stem	Stem l. L1	Extension length L2
883001	8	80	80
883003	8	100	80
883005	8	150	80
883007	8	200	80
883009	8	250	80
883011	10	80	80
883013	10	100	80
883015	10	150	80
883017	10	200	80
883019	10	250	80

Resistance thermometers 1 x Pt100/0 in 3-wire connection.

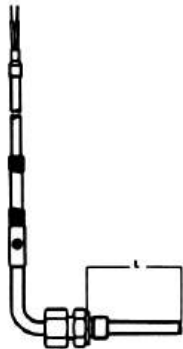
Stainless steel protection tube. Fitting 1/2" BSP with 3 mtrs SiSi insulated cable with armouring.



Cat.No.	Diam. stem	Stem length
883045	8	80
883047	8	100
883049	8	150
883051	8	200
883053	8	250
883055	10	80
883057	10	100
883059	10	150
883061	10	200
883063	10	250

THERMOSTATS, RESISTANCE THERMOMETERS AND THERMOCOUPLES

Resistance thermometers 1 x Pt100/0 in 3-wire connection.
 Hook shaped 90 degr. Stainless steel protection tube 8 mm diam.
 Fitting 1/2" BSP with 3 mtrs SiSi insulated cable with armouring.



Cat.No.	Stem length
883105	80
883107	100
883109	150
883111	200
883113	250

Thermocouples type K (NiCr-Ni Chromel-Alumel) for exhaust temperatures. Stainless steel protection tube 6 mm diam. Fitting 1/2" BSP with 3 mtrs. SiSi insulated cable with armouring. Thermowell from bar stock (St.St. 316) 3/4" BSP threaded.



Cat.No.	Length
883350	80
883352	100
883354	150
883356	250

Also available:

Thermocouples **type J** (Fe-Const, Iron-Constantane) and **type T** (Cu-Const, Copper-Constantane)

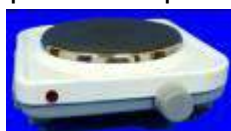
DOMESTIC EQUIPMENT

Toasters, automatic



Cat.No.	Volt	
902160	110	2 slices
902170	110	4 slices
902180	220	2 slices
902190	220	4 slices

Hotplates, complete with cord



Cat.No.	Volt	Watt	Plate diameter
902222	220	1500	18 cm with switch
902228	230	750/1500	15.5 cm – 18.5 cm



Microwaves



Cat.No.	Description
902290	110V 60Hz 20 ltr
902293	220V 60Hz 20 ltr

Rice cookers



Cat.No.	Description
902282	110V 3.6 liters
902284	220V 1.8 liters
902286	220V 2.8 liters

DOMESTIC EQUIPMENT

Immersion heaters, complete with cord

Cat.No.	Volt	Watt
902460	220	1000
902470	220	2000



Electric stoves

Cat.No.	Volt	Watt	Description	Fig.
902535	110	1200	Halogen heater 400-800-1200W	1
902538	110	1500	Fan heater	2
902566	220	2000	Fan heater with tip-over protection	2
902570	220	2000	Fan heater (metal) with tip-over protection	3



1



2



3

Coffee makers (12 cups)



Cat.No.	Volt
902720	110
902740	220

Water boilers

Cat.No.	Volt	Liter
902820	115	1.5
902830	220	1.7



1



2

Fig.
1
2

DOMESTIC EQUIPMENT

Electric Irons



Cat.No.	AC Volts
902940	220 (steam iron)

Vacuum cleaners



Cat.No.	Volt	Description
903210	110	Sledge model
903252	220	Sledge model

Paper dust-bags for vacuum cleaners



Cat.No.	Description
903428	For Bestron vacuum cleaner DYL1500/ABG450, dust-bag p/n is D00013
903450	For Nilfisk vacuum cleaners (GA70, GS80 and GS90)
903451	For Nilfisk vacuum cleaner K#903260 and GD1000, VP300 and Saltix 3

DOMESTIC EQUIPMENT

Refrigerators for use on 50/60Hz



Cat.No.	Volt	Liters
905110	110	50
905120	110	90/15
905130	110	180/50
905140	110	218/45
905170	220	40
905180	220	102/14
905200	220	198/66
905294	220	223/89

Automatic washing machines for use on 60Hz, content 6Kg



Cat.No.	Volt
905650	110

Automatic washing machines for use on 60Hz, content 9Kg



Cat.No.	Volt
905653	110
905663	220

DOMESTIC EQUIPMENT

Dishwashers



Cat.No.	Description
905900	220V 60Hz, 12 place settings

Megaphones



Cat.No.	Description
904000	10 Watt (4 batteries LR20)

Telephones



Cat.No.	Description
904050	Desk/wall type, tone/pulse with ringer and LED indicator

Thermostat for cooking ranges



Cat.No.	Description
904100	50-300°, capillary length 90 cm, type 55340 52010 for EGO cooking range

HEATING CABLES AND HEATING ELEMENTS

Self-limiting heating cable 110V and 220V, meter



Cat.No.	Description
902605	110V 8W per meter, 220V 17W per meter
902609	110V 12W per meter, 220V 23W per meter
902613	110V 25W per meter, 220V 40W per meter
902603	Connectionset for heating cables



Complete sets self-limiting heating cables 230V 10W per meter with 2 mtr connection cable and rubber Schuko plug 2 pole and earth

Cat.No.	Length	Watt
902700	2	20
902703	4	40
902706	10	100
902709	20	200

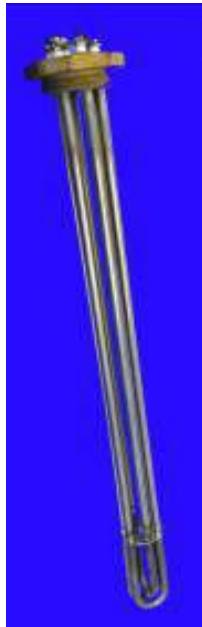


Screw-plug immersion heaters. Element: incoloy-800 plug: brass size 1.5" BSP. (Adaptor rings to 2" and 2,5" BSP available)

Cat.No.	Volt Delta	Volt Star	Watt	Insert l/mm
922110	230	1 phase	10000	150
922114	230	400	15000	145
922118	230	400	2000	180

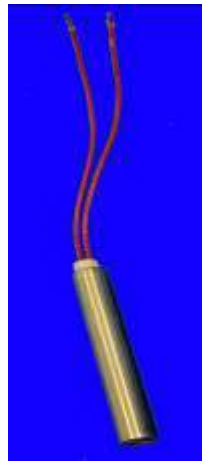
HEATING CABLES AND HEATING ELEMENTS

Screw-plug immersion heaters (continuation)



Cat.No.	Volt Delta	Volt Star	Watt	Insert l/mm
922122	230	400	2000	250
922126	230	400	2000	430
922130	230	400	2500	250
922134	230	400	3000	250
922138	230	400	4500	365
922142	230	400	6000	420
922146	230	400	7500	500
922150	230	400	9000	450
922154	230	400	9000	580
922158	254	440	3000	250
922160	254	440	3750	250
922164	254	440	5500	365
922168	254	440	7250	420
922172	254	440	9100	500

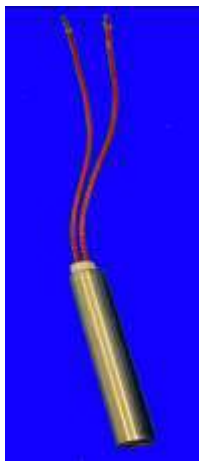
Cartridge heating elements, stainless steel



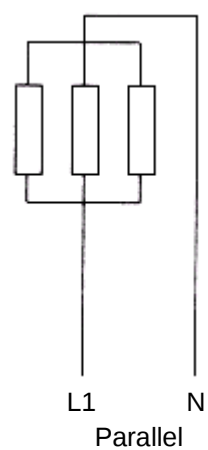
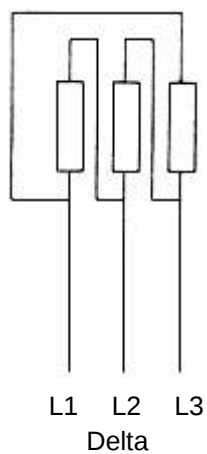
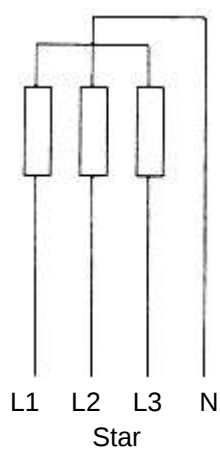
Cat.No.	Volt	Watt	D. x l. mm		
922310	230	100	6.5	x	40
922314	230	100	8	x	40
922318	230	100	15	x	100
922326	230	160	10	x	80
922332	230	200	8	x	60
922334	230	200	8	x	80
922338	230	200	8	x	100
922342	230	200	8	x	250
922346	230	200	10	x	50
922350	230	250	10	x	60
922358	230	250	10	x	130
922362	230	250	12.5	x	100
922366	230	250	16	x	60
922370	230	250	16	x	250
922373	230	300	12.5	x	120
922376	230	315	12.5	x	80
922378	230	350	10	x	100
922386	230	350	16	x	100
922390	230	400	10	x	80
922392	230	400	10	x	100
922406	230	500	10	x	130

HEATING CABLES AND HEATING ELEMENTS

Cartridge heating elements, stainless steel (continuation)



Cat.No.	Volt	Watt	D. x l. mm		
922410	230	500	10	x	250
922414	230	500	12.5	x	100
922422	230	500	16	x	100
922430	230	800	10	x	130
922438	230	800	16	x	300
922440	230	1000	12.5	x	250
922442	230	1000	16	x	100
922454	230	1250	20	x	250
922456	230	2000	20	x	200
922457	230	2200	20	x	280
922458	230	2500	20	x	200



FANS, BLOWERS AND ELECTRICAL TOOLS

Cabin fans, oscillating



Cat.No.	Description
940060	220/240VAC clip-on desk fan blade 140 mm
940064	220/240VAC wall mounting, fanblade 350 mm with remote control
940086	110V 50/60Hz, fan blade diam. 300 mm desk/wall type
940087	220V 50/60Hz, fan blade diam. 300 mm desk type
940094	220/240VAC stand fan 400 mm, height adjustable 102-122 cm

Mini cooling fans (120 x 120 mm, complete with connection cord)



Cat.No.	Description
942086	24VDC
942090	115V 50/60Hz
942100	220/240V 50/60Hz
942130	Finger guard, 120 mm for K#942090 and K#942100

Hot melt glue guns



Cat. No.	Description
942229	100-240V for 11 mm cartridges
942233	Box with 10 glue cartridges 11 x 200 mm

Blowers for cleaning electrical equipment



Cat.No.	Description
942248	Hot air gun 110VAC 1600W, 3 steps for drying, cleaning and cool down
942250	Hot air gun 220VAC 1600W, 3 steps for drying, cleaning and cool down

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