

SYSTEMATIC QUALITY

Plugs and sockets



Catalogue



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Principle of the
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Material plastic

Our plugs and sockets are for the most part made of PA6 (polyamide) and PC/ABS. These technical plastics have special properties for these applications:

- excellent impact resistance in combination with high rigidity and strength
- high thermal stability
- very good insulating properties
- high breakdown strength
- high wear resistance
- high weather resistance
- very good chemical resistance to a large number of various chemicals
- free from cadmium and halogens (fluoride, chloride, bromine, iodine, astatine)
- compatible with RoHS Directive 2002/95/EC

Contacts

The contacts are made of a **copper-zinc alloy**. These have good properties for contact connections, such as:

- high electrical conductivity 15 MS/m / (m/Ω mm²)
- high tensile strength 103kN/mm²
- high corrosion resistance in industrial atmosphere sector
- in nickel-plated version increased corrosion resistance in the area of seawater, water vapour, sulphur compounds, agriculture, dairies
- compatible with RoHS Directive 2002/95/EC

CEE couplings and –plug sockets 63A and 125A include a CuBe laminated spring with optimal bonding and corrosion protection.

Temperatures

IEC/EN 60309 applies to CEE plugs and sockets, which are used in an ambient temperature that does not normally exceed a range of -25°C to +40°C. Our CEE plugs and sockets have a **temperature resistance of -25°C to +80°C, in the short term 1h +100°C**.

Connection terminals

The pillar terminals are designed for the following maximum line cross sections:

Rated current	Line cross-section	
	flexible mm ²	Rigid (single-multi-strand) mm ²
A		
16	4	6
32	6	10
63	16	25
125	50	70

Product specifications

Plugs and sockets IP44/IP67 plastic:

- all contact screws:
 - accessible from one direction
 - cannot be lost and open
 - with combination slot
- laminated fields guarantee:
 - low insertion and separating forces
 - reduction of electric resistance
 - self-cleaning
 - optimal bonding: at least 10 contact points

Advantages plugs and couplings:

- cable relief and sealing of the line by tightening screw connection
- 100% tightness of cable inlet
- optimal anti-kink protection
- easy opening by unlocking and turning
- optimal grip
- large terminal compartment = fast, easy connection of cable
- open contact clamps

Sturdiness:

- for unfavourable environmental conditions
- special impact resistance
- highly heat-resistant contact carriers
- corrosion-protected contacts (e.g. in chemical plants)

Screwless plugs and sockets:

Screwless plugs and sockets can be used for housing all conductor cross-sections according to standard: for flexible, stripped wires with or without wire end sleeves or single filament stripped wires.

- **no adjusting and locking via additional sliders required**
- **screwless TT clamps (patented) (TT = TurboTwist)**
 - opened contact clamps in delivery condition
 - fast, easy connection of cable
- opening and closing at the touch of a finger (without tools)

Low voltage/high frequency:

Safety extra-low voltage is a protective measure for use under unfavourable conditions; the rated value in AC. voltage is limited to 50V at most. A secondary keyway is used to distinguish between voltage and frequency.

Solid rubber plugs and sockets IP44/IP67:

GIFAS solid rubber plugs and sockets have a very high load-bearing capacity, offer maximum safety and durability.

- absolutely unbreakable
- nickel-plated contacts
- with threaded cable connection

CH-norm plugs and sockets

Plugs and sockets type 13, 15, 23, 25

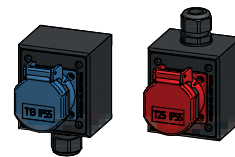
The entire CH-norm standard range for 10A and 16A (new) in the voltages 230/400V. All plugs and sockets are made from solid rubber, and all pins and sleeves are in a nickel-plated version.

Plug IP55



Item no.	Description	No. of poles	Voltage (50 - 60Hz)	Strength of current
✓ 860813	Plug black T13	P+N+E	230V	10 A
✓ 860823	Plug black T23	P+N+E	230V	16 A
✓ 860815	Plug black T15	3P+N+E	230/400V	10 A
✓ 860825	Plug black T25	3P+N+E	230/400V	16 A

Socket IP55



Item no.	Description	Design	No. of poles	Voltage (50 - 60Hz)	Strength of current
✓ 228539	Socket AP T13	AP-M20 1) or 2)	P+N+E	250 V	10 A
✓ 050045	Socket AP T23	AP-M20 1) or 2)	P+N+E	230 V	16 A
228541	Socket AP T15	AP-M20 1) or 2)	3P+N+E	230/400 V	10 A
228542	Socket AP T25	AP-M20 1) or 2)	3P+N+E	230/400 V	16 A

1) =cable gland from above 2) =cable gland from below

Coupling IP55



Item no.	Description	No. of poles	Voltage (50 - 60Hz)	Strength of current
✓ 860814	Coupling black T13	P+N+E	230V	10 A
✓ 860824	Coupling black T23	P+N+E	230V	16 A
✓ 860816	Coupling black T15	3P+N+E	230/400V	10 A
✓ 860826	Coupling black T25	3P+N+E	230/400V	16 A

Built-in socket IP55



Item no.	Description	No. of poles	Voltage (50 - 60Hz)	Strength of current
✓ 860913	Socket blue T13	P+N+E	230V	10 A
✓ 860914	Socket grey T13	P+N+E	230V	10 A
✓ 860915	Socket red T15	3P+N+E	400V	10 A
✓ 860916	Socket black T13	P+N+E	230V	10 A
✓ 860923	Socket blue T23	P+N+E	230V	16 A
✓ 860924	Socket grey T23	P+N+E	230V	16 A
✓ 860925	Socket red T25	3P+N+E	400V	16 A

✓ from stock, offer subject to prior sale.
Technical Information on page 4.
Other versions available on request.

Principle of the voltage time switch (clock position)

The clock shows the position of the protection conductor contact for unchanging lug or groove on the casing. The lug or groove adopts the 6 o'clock position in all versions. Unlike the lug or groove, the protection conductor contact has a standardised clock setting conforming to the required electrical values. To allow the product to be easily identified, the various clock positions are assigned the colours given in the standard.

Operating voltage

20 - 25 V
40 - 50 V
100 - 130 V
200 - 250 V
380 - 480 V
500 - 690 V
> 60 - 500 Hz

Code colours

violet
white
yellow
blue
black
red
green

Position of the protection conductor contact socket relative to the polarising slot for different operating voltages (V) and frequencies (Hz) conforming to IEC 60309

Clock position of the protection conductor contact and colour coding:

	4h	9h	6h	11h	7h	5h	12h	1h	10h	2h	3h	8h
Frequency Hz	50 - 60	50 - 60	50 - 60	60	50 - 60	50 - 60	50 - 60	–	100 - 300	over 300 up to 500	50 - 60	
Voltage V	57/100 – 75/130	120/208 – 144/250	200/346 – 240/415	250/400 – 265/460	277/480 – 288/500	347/600 – 400/690		over 50	over 50	over 50	220/380 – 250/440 16 + 32A	
5-pol. 3P+N+E												
Voltage V	100 - 130	200 - 250	380 - 415	440 - 460	480 - 500	600 - 690	Voltages after isolating transformer*		over 50	over 50	380 - 440 only for 16 + 32A	
4-pol. 3P+E												
Voltage V	100 - 130	380 - 415	200 - 250		480 - 500	277*	Voltages after isolating transformer		*		over 50 – 250 direct current	over 250 direct current
3-pol. 2P+E												

View from the front of the coupling sockets on the contact sockets / 63A + 125A plugs and sockets with pilot contact
*These versions are not standardised.

Position of the secondary lug to the primary lug for voltages up to 50 V and frequencies up to 500 Hz and colour coding:

	–	12h	4h	2h	3h	11h	10h
Frequency Hz	50 - 60	50 - 60	100 - 200	300	400	over 400 up to 500	GS
Voltage V	20 - 25	40 - 50	40 - 50	up to 50	up to 50	up to 50	up to 50
2-pole							
3-pole							

View from the front of the coupling sockets on the contact sockets

Plastic range IP44/67 (CEE)

Plug/coupling



Plastic plugs CEE IP44

No. of poles	Strength of current	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16 A	✓ 056857	059380	175749	010499	048661
2P+E	32 A	✓ 057211	201040			100681
3P+E	16 A	042152 ✓	056858	058033 ✓	059621	113924
3P+E	32 A	104921 ✓	056859	058035	043782	016364
3P+N+E	16 A	072083 ✓	056860	✓ 021054	112042	048663
3P+N+E	32 A	022117 ✓	056861	✓ 040539		100680
3P+N+E	16 A		✓ *028789			
3P+N+E	32 A		✓ *028790			

* Plastic plug CEE screwless

Plastic couplings CEE IP44

No. of poles	Strength of current	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16 A	✓ 056864	059295	198681	010500	041505
2P+E	32 A	✓ 057213	126223			029790
3P+E	16 A	103350 ✓	056865	058039	043787	
3P+E	32 A	128194 ✓	056866	042539	043788	111965
3P+N+E	16 A	103976 ✓	056867	✓ 040327	112043	048743
3P+N+E	32 A		✓ 056868	✓ 040541		157880
3P+N+E	16 A		✓ *028791			
3P+N+E	32 A		✓ *028792			

* Plastic plug CEE screwless

Plastic plugs CEE IP67

No. of poles	Strength of current	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16 A	✓ 055992	150499	✓ 053393	154408	
2P+E	32 A	059788				
2P+E	63 A	049612				
3P+E	16 A	152062 ✓	055996 ✓	043750	043783	
3P+E	32 A		✓ 055997	043751	043785	
3P+E	63 A	187653 ✓	055998 ✓	058036		107634
3P+E	125 A	203525 ✓	056862	043762		198933
3P+N+E	16 A	018693 ✓	055993	050753		225228
3P+N+E	32 A	035455 ✓	055994 ✓	013929		028493
3P+N+E	63 A	023613 ✓	055995	050752		✓ 028491
3P+N+E	125 A		✓ 056863	059085		193089

Plastic couplings CEE IP67

No. of poles	Strength of current	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16 A	✓ 056000	172955	033144	171655	019764
2P+E	32 A	020580				
2P+E	63 A	046384				
2P+E	125 A	187654				
3P+E	16 A	042188 ✓	056004	043752	043796	
3P+E	32 A	212776 ✓	056005	043753	043797	
3P+E	63 A	142199 ✓	056006	043758		
3P+E	125 A	203526 ✓	056869	043760		
3P+N+E	16 A	018694 ✓	056001	033143		
3P+N+E	32 A	114165 ✓	056002 ✓	029090		233323
3P+N+E	63 A	023614 ✓	056003	032779		✓ 162617
3P+N+E	125 A		✓ 056870	017491		169211

✓ from stock, offer subject to prior sale.

Technical Information on page 4.

Other versions, dimensions, protective caps for plug on request.

Built-in sockets



Plastic slanted built-in sockets CEE IP44



No. of poles	Strength of current	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16A	✓ 056929	059378	189577	191980	104417
2P+E	32A	✓ 057214	169321	216890		164553
3P+E	16A	042150	✓ 056930	043776	✓ 019422	113926
3P+E	32A	022626	✓ 056932	043777	019425	033548
3P+N+E	16A	103603	✓ 056931	✓ 021056	147276	197384
3P+N+E	32A	010076	✓ 056933	✓ 044812		229602



Plastic slanted built-in sockets CEE IP67

No. of poles	Strength of current	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16A	✓ 055975	112089	130299		
3P+E	16A	053396	✓ 055976	043778		
3P+E	32A		✓ 055978	043779		
3P+E	63A	162794	✓ 055988	043780		
3P+E	125A		056934	043781		198932
3P+N+E	16A	159010	✓ 055977	050751		
3P+N+E	32A	144977	✓ 055980	✓ 029093		028490
3P+N+E	63A	128330	✓ 055367	050750		028479
3P+N+E	125A		✓ 056935	044381		



Plastic straight built-in sockets CEE IP44

No. of poles	Strength of current	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16A	✓ 056936	054780	175750	023069	048662
2P+E	32A	✓ 057215	201039			197897
3P+E	16A	141802	✓ 056937	043766	043807	113925
3P+E	32A	029293	✓ 056939	043767	043808	033555
3P+N+E	16A	181990	✓ 056938	✓ 054832		048665
3P+N+E	32A	105631	✓ 056940	✓ 016006		106911



Plastic straight built-in sockets CEE IP67

No. of poles	Strength of current	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16A	✓ 056077				
2P+E	32A	118796				
3P+E	16A	136772	✓ 056078	043765	043809	
3P+E	32A	136773	056079	043763	043810	
3P+E	63A	136774	✓ 055990	042795		020200
3P+E	125A		056943	043769		
3P+N+E	16A	025978	✓ 055684	153561		
3P+N+E	32A	035456	✓ 055989	✓ 029092		
3P+N+E	63A	163720	✓ 055991	041267		210351
3P+N+E	125A		✓ 056945	212867	212867	

✓ from stock, offer subject to prior sale.
Technical Information on page 4.
Other versions available on request.

Wall sockets



Plastic wall sockets CEE IP44



No. of poles	Strength of current	Cable connection	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16 A	M25	✓ 056992	102569	181826	035521	034447
2P+E	32 A	M25	057216				100679
3P+E	16 A	M25	014400	✓ 056995	058038	043812	036122
3P+E	32 A	M25	025475	✓ 056997	043770	043814	016366
3P+N+E	16 A	M25	057194	✓ 056996	✓ 060051		034445
3P+N+E	32 A	M25	026902	✓ 056998	✓ 022065		100678



Plastic wall sockets CEE IP67

No. of poles	Strength of current	Cable connection	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16 A	M25	✓ 056994		055396	154407	101188
3P+E	16 A	M25	152060	✓ 056999	043772	043815	
3P+E	32 A	M25		057000	043773	043816	
3P+E	63 A	2×M32, 1×M40	185278	057001	043774		
3P+E	125 A	2×M40, 1×M63		057003	✓ 043775		
3P+N+E	16 A	M25	156862	✓ 057004	029848		
3P+N+E	32 A	M25		✓ 057005	029091		
3P+N+E	63 A	2×M32, 1×M40	182193	✓ 057006	050754		157830
3P+N+E	125 A	1×M63, 2×M40		✓ 057007	147052		



Wall sockets CEE for wiring through IP44

No. of poles	Strength of current	Cable connection	Item no.	Item no.	Item no.	Item no.	Item no.
3P+N+E	16 A	M25		✓ 021637	033263		
3P+N+E	32 A	M25		✓ 045997	105891		



Wall socket combinations CEE in plastic IP44

No. of poles	Strength of current	Equipment	Cable	Item no.	Item no.
2P+E	16 A	CEE 16/3+T23	above, 2× below or at the back, Ø20 mm (M25)	236901	
3P+N+E	16 A	CEE 16/5+T23	above, 2× below or at the back, Ø20 mm (M25)		✓ 236902
3P+N+E	16 A	CEE 16/5+T25	above, 2× below or at the back, Ø20 mm (M25)		✓ 236900
3P+N+E	32 A	CEE 32/5+T23	above, 2× below or at the back, Ø20 mm (M25)		✓ 236903

✓ from stock, offer subject to prior sale
Technical Information on page 4
Other versions available on request.

Built- in and wall mounted plugs



Plastic built-in equipment plugs CEE IP44



No. of poles	Strength of current	Cable connection	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16A		✓ 056461	126180		034000	054805
2P+E	32A		028147				
3P+E	16A		039389	056462	051275	051279	
3P+E	32A		113744	056463	051276	051281	
3P+N+E	16A			✓ 056460	177503		
3P+N+E	32A			✓ 056464	✓ 029095		230247



Plastic built-in equipment plugs CEE IP67

No. of poles	Strength of current	Cable connection	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16A		038950				
3P+N+E	16A		117799	038949	180601		
3P+N+E	32A			038948	118897		
3P+E	63A			056465	220915		
3P+E	125A			✓ 040467	017204		
3P+N+E	63A			✓ 056466	177504		✓ 225408
3P+N+E	125A			✓ 011577	017489		169209



Plastic wall equipment plugs CEE IP44

No. of poles	Strength of current	Cable connection	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16A	M25	✓ 057008				
2P+E	16A	M25	✓ 043932*				
2P+E	32A	M25	057217				
3P+E	16A	M25		057009	051283	051287	
3P+E	32A	M25		057011	051284	051288	
3P+N+E	16A	M25	141952	✓ 057010	116960		221129
3P+N+E	16A	M25		✓ 046850*			
3P+N+E	32A	M25		✓ 057012	109288		225407
3P+N+E	32A	M25		055285*			

* Plastic wall equipment plugs with cover



Plastic wall equipment plugs CEE IP67

No. of poles	Strength of current	Cable connection	Item no.	Item no.	Item no.	Item no.	Item no.
2P+E	16A	M20	145002				
3P+E	16A	M20		163946			
3P+N+E	16A	M20		145001			
3P+N+E	32A	M25		144999	216048		233322
3P+E	63A	2×M32, 1×M40		✓ 057013	051285		
3P+E	125A	2×M40, 1×M63		057015	051286		
3P+N+E	63A	2×M32, 1×M40		✓ 057014	031013		193099
3P+N+E	125A	2×M40, 1×M63		✓ 057016	168684		220261

✓ from stock, offer subject to prior sale.

Technical Information on page 4.

Other versions, dimensions, protective caps on request.

Plastic low voltage/high frequency (CEE)

Low voltage/high frequency



Plastic plug CEE,
cable inlet with anti-kink sleeve, IP44

Polzahl	Strength of current	Item no.	Item no.	Item no.
2P	16 A	✓ 040494	✓ 043653	043855
2P	32 A	043659	043661	043858
3P	16 A	✓ 043654	✓ 043655	✓ 043856
3P	32 A	043662	043663	✓ 059620
3P	63 A			✓ *011568

Plastic couplings CEE,
cable inlet with anti-kink sleeve, IP44

No. of poles	Strength of current	Item no.	Item no.	Item no.
2P	16 A	✓ 043472	043656	043880
2P	32 A	043667	043669	043916
3P	16 A	043657	043658	✓ 043881
3P	32 A	043670	043671	✓ 041843
3P	63 A			*011569

Plastic built-in equipment plugs CEE, IP44

No. of poles	Strength of current	Item no.	Item no.	Item no.
2P	16 A	051289	034804	051299
2P	32 A	051290	051294	051300
3P	16 A	051291	051297	051301
3P	32 A	051292	051298	051302

Plastic built-in sockets CEE, IP44

No. of poles	Strength of current	Item no.	Item no.	Item no.
2P	16 A	✓ 043712	043713	043890
2P	32 A	043716	043718	043921
3P	16 A	043714	043715	043891
3P	32 A	043719	043720	041793
3P	63 A			✓ *011570

Plastic wall equipment plugs CEE,
cable inlet prepared with M25 thread, IP44

No. of poles	Strength of current	Item no.	Item no.	Item no.
2P	16 A	043738	043739	051303
2P	32 A	043744	043746	051305
3P	16 A	043740	043743	051306
3P	32 A	043748	043749	051307

Plastic wall sockets CEE,
cable inlet prepared with M25 thread, IP44

No. of poles	Strength of current	Item no.	Item no.	Item no.
2P	16 A	043473	043694	043901
2P	32 A	043698	043699	043905
3P	16 A	043695	043696	043902
3P	32 A	043700	043701	043906

*Not suitable with HF solid rubber range 50V

✓ from stock, offer subject to prior sale.
Technical Information on page 4.
Other versions available on request.

Plugs/Couplings/ Built-in sockets/Wall sockets



Designation	Protection category	No. of poles	Strength of current	Cable inlet	Item no.	Item no.
Plug	IP44	2P+E	16 A	M20	✓ 010049	
Plug	IP44	3P+N+E	16 A	M25		✓ 010101
Coupling	IP44	2P+E	16 A	M20	✓ 010058	
Coupling	IP44	3P+N+E	16 A	M25		✓ 010115



Designation	Protection category	No. of poles	Strength of current	Cable inlet	Item no.	Item no.
Plug	IP44	3P+N+E	32 A	M32		✓ 010105
Coupling	IP44	3P+N+E	32 A	M32		✓ 010118



Designation	Protection category	No. of poles	Strength of current	Cable inlet	Item no.	Item no.
Plug	IP67	3P+N+E	63 A	M40		✓ 010111



Designation	Protection category	No. of poles	Strength of current	Cable inlet	Item no.	Item no.
Built-in socket	IP44	2P+E	16 A		✓ 010067	
Built-in socket	IP44	3P+N+E	16 A			✓ 010127*
						010128**
Wall socket	IP44	2P+E	16 A	M20	010081	
Wall socket	IP44	3P+N+E	16 A	M20		✓ 010146

* Normal flange (100×100)

** Narrow flange (80×100)



Designation	Protection category	No. of poles	Strength of current	Cable inlet	Item no.	Item no.
Built-in socket	IP44	3P+N+E	32 A			✓ 010134
Wall socket	IP44	3P+N+E	32 A	M25		✓ 010149

✓ from stock, offer subject to prior sale.
Technical Information on page 4.
Other versions available on request.

Low voltage /high frequency solid rubber range (CEE) Special devices CEE /Adapters

Low voltage /high frequency Adapter plate and plug-socket



Solid rubber plug CEE IP44

No. of poles	Strength of current	Cable inlet	Item no.
3P	32A	(for cable-Ø 13.5-23 mm)	✓ 010240



Solid rubber coupling CEE IP44

No. of poles	Strength of current	Cable inlet	Item no.
3P	32A	(for cable-Ø 13.5-23 mm)	✓ 010244



Solid rubber built-in socket CEE IP44

No. of poles	Strength of current	Cable inlet	Item no.
3P	32A		✓ 010248



Solid rubber wall socket CEE IP44

No. of poles	Strength of current	Cable inlet	Item no.
IP44	32A	M20	051269



Conversion kits for a change-over on the frequency converter (vibrator)

Hard rubber adapter plate

029353	Rectangular 90×110 mm (for Busch-Nova)
--------	--

Complete conversion kit:

Adapter plate and plug-socket incl. seal

033516	Busch-Nova to CEE 32A/3P
--------	--------------------------

Phase-sequence test plugs / Phase inverters/Adapters



Test plug IP44

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 056047	3P+N+E	400 V	16 A
✓ 056048	3P+N+E	400 V	32 A
056659	3P+N+E	400 V	63 A



Phase inverter IP44

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 051309	3P+N+E	400 V	16 A
✓ 051310	3P+N+E	400 V	32 A



Adapter CEE-Schuko IP44

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 050997	2P+E	230 V	16 A

Input: CEE 16A-plug

Output: Shock-proof coupling with cover



Fixed adapter CEE7-T12 IP20

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 012146	2P+E	230 V	10 A

Oneway mounting, not anymore demountable, with plug-in assistance

✓ from stock, offer subject to prior sale.

Technical Information on page 4.

Other versions available on request.

Sockets

Plug adapter

Multiple coupling

- Plug adapter with suspension
- Plug adapter phase inverter with suspension
- Multiple coupling with suspension

offer the greatest possible flexibility on all building sites and service environments; versions with retaining clips also available.



Panelmounted socket outlet, angled IP44



No. of poles	Strength of current	Item no.	Item no.
3P	16A	148316	

Lockable with a padlock for camping- and harbour power connectors



Plug adapter IP44

No. of poles	Strength of current	Item no.	Item no.
3P+N+E	16A		✓ 029757

Input: CEE 32A
Output: CEE 16A via automatic cut-out



Plug adapter phase inverter IP44

No. of poles	Strength of current	Item no.	Item no.
3P+N+E	16A		✓ 029760

Input: CEE 32A
Output: CEE 16A via automatic cut-out



Multiple coupling with suspension IP44

No. of poles	Strength of current	Item no.	Item no.
3P+N+E	16A		✓ 050998

Input: CEE 16A
Output: 3×CEE 16A



Multiple coupling with suspension IP44

No. of poles	Strength of current	Item no.	Item no.
3P+N+E	32A		✓ 029756

Input: CEE 32A
Output: 3×CEE 32A

Right-angle plug

- Right-angle plug, also screwless
- Right-angle plug phase inverter, also screwless

suitable for cramped spaces, opening and closing at the touch of a finger (without tools), faultless connection as a result of clearly identified clamps.



Right-angle plug IP44



No. of poles	Strength of current	Item no.	Item no.
3P	16A	*030546	
4P	16A		*030548
5P	16A		*103274
5P	16A		049955
5P	32A		049956

*screwless plug



Right-angle plug IP67

No. of poles	Strength of current	Item no.	Item no.
3P	16A	*030547	
4P	16A		*030549
5P	16A		*145739
5P	32A		*114811

*screwless plug



Right-angle plug phase inverter IP44

No. of poles	Strength of current	Item no.	Item no.
3P+E	16A		030550



Right-angle plug phase inverter IP67

No. of poles	Strength of current	Item no.	Item no.
3P+E	16A		030551

RCCB safety adapters / Multi-couplings / Schuko / NF version

RCCB safety adapters Multi-couplings

- safety adapter range and personal safety adapters provide excellent protection of people and property.
- multi-couplings 3x type 13/3x type 23 for special applications, supplied with or without cable



Personal safety switch PRCD/IP55, for optimum personal safety as intermediate cord device

Item no.	Voltage (50-60 Hz)	Strength of current
✓ 059069*	230 V	16 A/10 mA
✓ 109944**	230 V	16 A/30 mA

* Type S (Standard)

** Type K (for emergency power generator)

Item no.	Voltage (50-60 Hz)	Strength of current
✓ 222286	230 V	16 A/30 mA

Type S+ (Standard)

Multi-couplings
3xT13, 230V/10A IP55



Item no.	Feed-in cable	No. of poles
✓ 228543	without cable	P+N+E
✓ 228506	cable 5m/ 3x1.5 mm ² /T13	P+N+E
✓ 228521	cable 10m/ 3x1.5 mm ² /T13	P+N+E
✓ 228508	cable 5m/ 5x1.5 mm ² /T15	P+N+E
228523	cable 10m/ 5x1.5 mm ² /T15	P+N+E

Coupling
3xType 23, 230V/10A IP54



Item no.	Feed-in cable	No. of poles
✓ 228544	without cable	P+N+E

Safety plugs and sockets/NF version

- The earthing contact plugs and sockets for 250V/16A and the plugs and sockets for the French NF standard for 250V/16A are made of solid rubber (built-in socket made of high quality plastic) and fitted with nickel-plated contacts.



Plugs type Schuko IP54

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 010343	P+N+E	250 V	16 A



Coupling Schuko IP54

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 010344	P+N+E	250 V	16 A



Built-in socket Schuko IP54

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 014750	P+N+E	250 V	16 A



Plugs type NF IP44

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 020336	2P+E	250 V	16 A



Coupling type NF IP20 (IP if plugged in IP44)

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 020338	2P+E	250 V	16 A



Built-in socket Schuko F/B IP54

Item no.	No. of poles	Voltage (50-60 Hz)	Strength of current
✓ 039085	3P	250 V	16 A

✓ from stock, offer subject to prior sale

Various plugs and sockets

Range of popular plugs and sockets (particularly in Switzerland) and as well built-in sockets RJ45. All articles for indoor use IP20.



Item no.	Version
✓ 028498	Built-in socket 1×RJ45 Cat.6a Modul 8(8) yellow IP55 (incl. flat seal)
✓ 026235	Built-in socket 2×RJ45 Cat.6a Modul 8(8) yellow IP55 (incl. flat seal)



Item no.	Version
✓ 027785	Built-in socket type 13, Polyamide, black, 2P+E, 10A, 230V
✓ 010355*	Built-in socket 3×type 13, Nylon black, 2P+E, 10A, 230V

* available while stocks last



Item no.	Version
✓ 010366	Plug type 12, Polyamide black 2P+E, 10A, 230V
✓ 010365	Coupling type 13, Polyamide black, 2P+E, 10A, 230V



Item no.	Version
✓ 010364	Vibrator plug, Hard rubber, black 3P, 16A, 50V, 200Hz
✓ 010363	Vibrator coupling, Hard rubber, black, 3P, 16A, 50V, 200Hz



Item no.	Version
✓ 054924	Plug type 12, Polyamide white 2P+E, 10A, 230V
✓ 041991	Coupling type 13, Polyamide white, 2P+E, 10A, 230V



Item no.	Version
✓ 044358	Plug type 23, Plastic/2P+E, 16A, 230V/50-60Hz
✓ 044365	Coupling type 23, Plastic/2P+E, 16A, 230V/50-60Hz



Item no.	Version
✓ 010357	Distribution plug 3×type 13 Nylon white 2P+E, 10A, 230V



Item no.	Version
✓ 044374	Plug type 25, Plastic/2P+N+E, 16A, 230/400V/50-60Hz
✓ 044378	Coupling type 25, Plastic/2P+N+E, 16A, 230/400V/50-60Hz



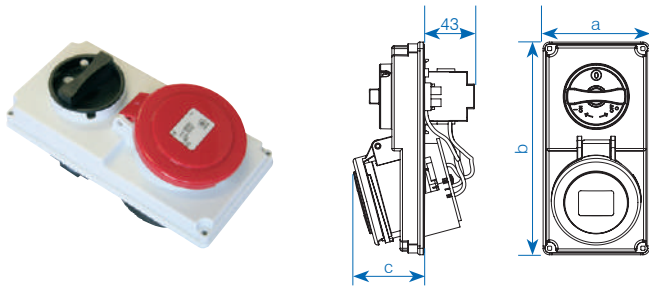
Item no.	Version
024274	Distribution plug 3×type 13, Nylon white 2P+E, 10A, 230V

✓ from stock, offer subject to prior sale

Switchable wall sockets

Mechanically locked, lockable with a padlock

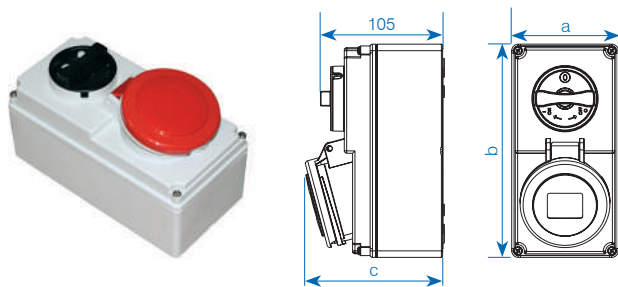
- Solid version made out of impact-proofed PC/ABS plastic, IP44
- Wired, ready for connection
- Lockable with a padlock when disconnected
- Version with protective cover for 6 modules, integrated DIN-rail for RCDs and MCBs



- Mechanical interlock:
 - The plug is interlocked **after plug-in and turned-on**
 - The switch is interlocked **after shut-off and pulling out the plug**

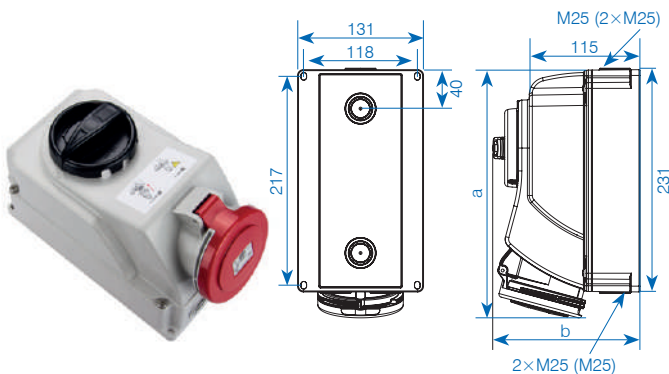
Switchable wall sockets IP44 without housing for fittings – compact range

Item no.	No. of poles	Voltage (50-60 HZ)	Strength of current	Dimensions
043836	3P+E	400V	16A	a=90/b=180/c=59
043838	3P+N+E	400V	16A	a=90/b=180/c=60
043837	3P+E	400V	32A	a=90/b=180/c=66
043840	3P+N+E	400V	32A	a=90/b=180/c=67



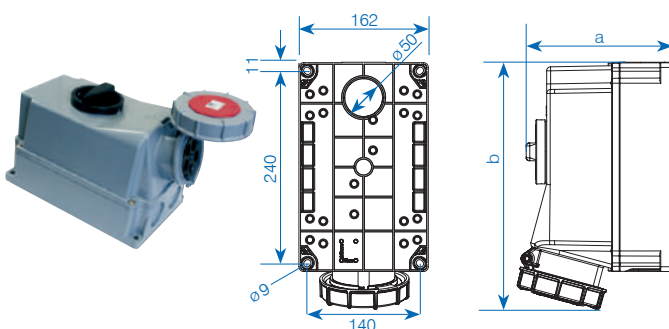
Switchable wall sockets IP44 including housing for fittings – compact range

Item no.	No. of poles	Voltage (50-60 HZ)	Strength of current	Dimensions
043826	3P+E	400V	16A	a=90/b=180/c=116
✓ 057219	3P+N+E	400V	16A	a=90/b=180/c=117
043828	3P+E	400V	32A	a=90/b=180/c=123
✓ 057221	3P+N+E	400V	32A	a=90/b=180/c=124



Switchable wall sockets IP44 including housing for AP installation

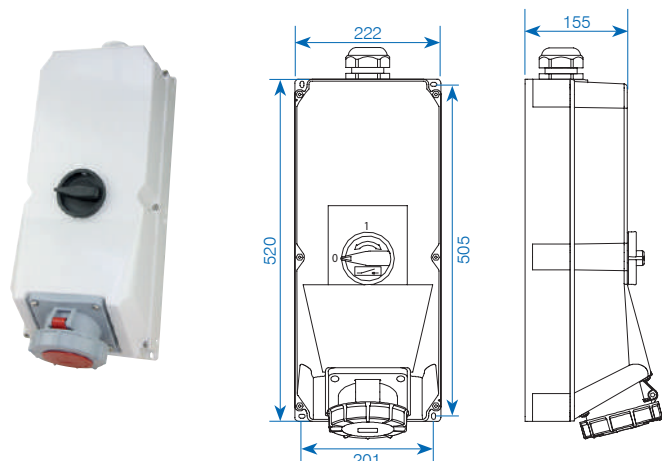
Item no.	No. of poles	Voltage (50-60 HZ)	Strength of current	Dimensions
✓ 056095	3P+E	400V	16A	a=249/b=153
016958	3P+N+E	400V	16A	a=249/b=153
057692	3P+E	400V	32A	a=259/b=153
✓ 016960	3P+N+E	400V	32A	a=259/b=153



Switchable wall sockets IP67 including housing for fittings – mechanical interlock

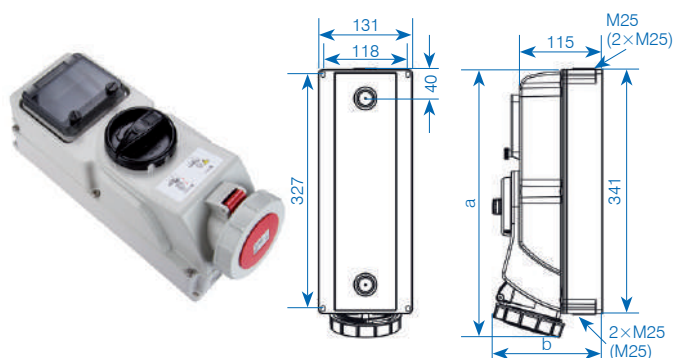
Item no.	No. of poles	Voltage (50-60 HZ)	Strength of current	Dimensions
022489	3P+E	400V	63A	a=184/b=310
✓ 018984	3P+N+E	400V	63A	a=184/b=310

✓ from stock, offer subject to prior sale



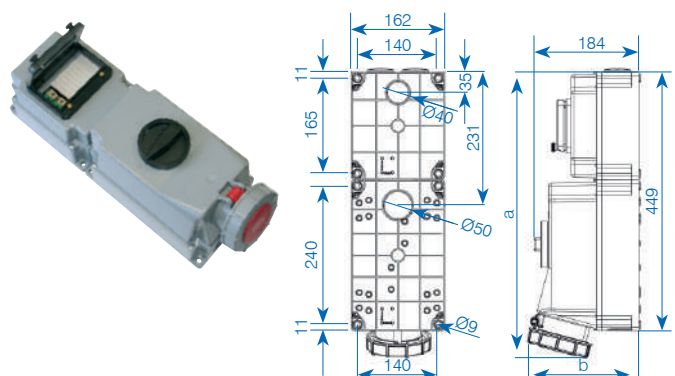
Switchable wall sockets IP67
with housing for fittings – mechanical interlock)

Item no.	No. of poles	Voltage (50-60 HZ)	Strength of current
149341	3P+E	400 V	125 A
124129	3P+N+E	400 V	125 A



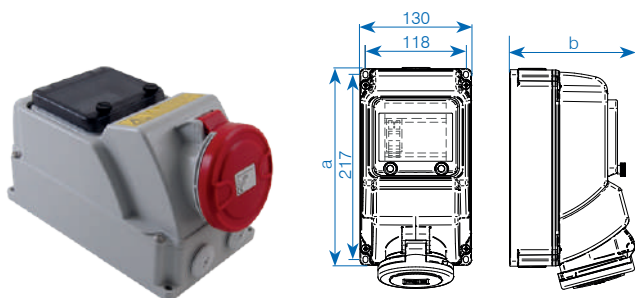
Switchable wall sockets IP67
without housing for fittings – mechanical interlock

Item no.	No. of poles	Voltage (50-60 HZ)	Strength of current	Dimensions
043819	3P+E	400 V	16 A	a=361/b=153
✓ 057223	3P+N+E	400 V	16 A	a=363/b=153
043821	3P+E	400 V	32 A	a=371/b=153
✓ 057225	3P+N+E	400 V	32 A	a=372/b=153



Switchable wall sockets IP67
with DIN rail and cover for five module,
prepared for installation fuse elements

Item no.	No. of poles	Voltage (50-60 HZ)	Strength of current
043825	3P+E	400 V	63 A
✓ 057227	3P+N+E	400 V	63 A



Fused wall socket IP44
5 poles, with DIN rail and cover for five modules,
incl. blind screw plug

Item no.	Protections	Voltage (50-60 HZ)	Strength of current	Dimensions
✓ 167618	FI 25 A/30 mA	400 V	16 A	a=230/b=140
✓ 167619	FI/LS 16 A/30 mA	400 V	16 A	a=230/b=140
✓ 167620	FI 40 A/30 mA	400 V	32 A	a=230/b=148
✓ 167621	FI/LS 32 A/30 mA	400 V	32 A	a=230/b=148

Technical informations PowerSAFE



Technical information

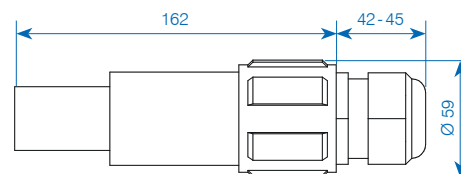
- Colour coded
- Mechanically keyed to prevent connection errors
- Flame retardant UL94-VO
- Locking mechanism to prevent accidental disconnection under load
- Finger proof contacts both genders (IP2X) to prevent access to electrical contacts when uncoupled
- Multipoint, self wiping contact area
- Silver plated contacts
- **compatible with PowerLock and PowerLink**
- enhanced impact-resistant housing
- Metric EN compliant cable glands, with increased cable clamping range
- No special tools required for assembly
- only limited UV-resistance
- CE-compatible in line with: EN 60309-1, DIN-EN 61984 IEC 60900

Technical Data	400A	600A
No. of contacts	1	1
Max. continuous current rating	400 A	600 A
Surge current	75kA	75 kA
Short circuit rating	35.5kA	35.5 kA
Cable cross sectional area C.S.A	35 mm ² – 150 mm ²	50 mm ² – 240 mm ²
Contact termination	Screw	Crimp*
Mating method	Bayonet lock	Bayonet lock
Operating voltage	1'000 VAC	1'000 VAC
Max. rated voltage to earth	2 KVAC/3 KVDC	2 KVAC/3 KVDC
Min. flashover	9.5 KVDC	9.5 KVDC
Insulation resistance	> 5MOhm@500VDC	> 5MOhm@500VDC
Ingress protection	IP67	IP67
Protection against electric shock	IP2X	IP2X
Flammability	UL94-VO	UL94-VO
Mating cycles	>500	>500
Shell material	High temperature thermoplastic	High temperature thermoplastic

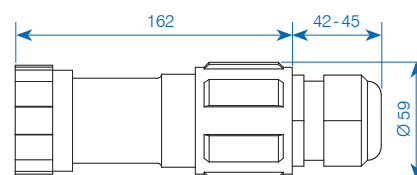
*Adapter sleeves available on request

Earth sketches

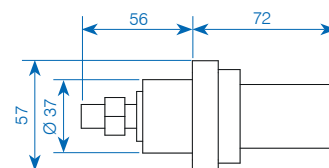
Single-wire plug PowerSAFE 400 A/600 A



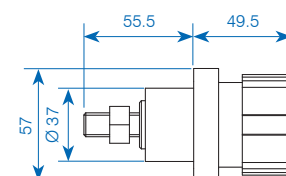
Single-wire coupling PowerSAFE 400 A/600 A



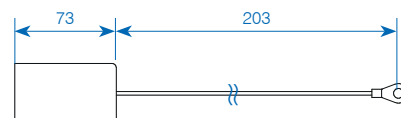
Single-wire built-in plug PowerSAFE 400 A/600 A



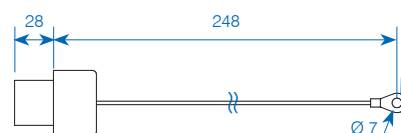
Single-wire built-in coupling PowerSAFE 400 A/600 A



Protective cap plug



Protective cap socket



Single-wire plugs and couplings PowerSAFE

- finger proof contacts both genders (IP2X) to prevent access to electrical contacts
- with cable gland M40 (various inserts)
- the connectors are supplied Colour coded and mechanically keyed to prevent connection errors.



Plugs PowerSAFE			400 A to 150 mm ²		600 A to 240 mm ²
L1	brown	✓	037821*	✓	104992
L2	black	✓	037822*	✓	104993
L3	grey	✓	037823*	✓	104994
N	blue	✓	037824*	✓	104995
PE	green	✓	037825*	✓	104996

* Reducing seal for KV M40 separately available for cross-sectional diameter 19-28mm:
Item no. 192533



Coupling sockets PowerSAFE			400 A to 150 mm ²		600 A to 240 mm ²
L1	brown	✓	037816*	✓	104981
L2	black	✓	037817*	✓	104982
L3	grey	✓	037818*	✓	104984
N	blue	✓	037819*	✓	104985
PE	green	✓	037820*	✓	104986

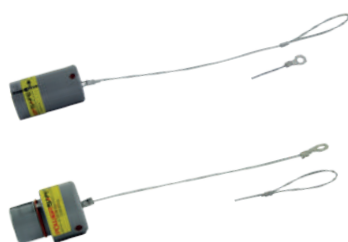
* Reducing seal for KV M40 separately available for cross-sectional diameter 19-28mm:
Item no. 192533



Built-in plugs PowerSAFE			400 A to 150 mm ²		600 A to 240 mm ²
L1	brown	✓	038856	✓	104997
L2	black	✓	038857	✓	104998
L3	grey	✓	038858	✓	104999
N	blue	✓	038859	✓	105000
PE	green	✓	038860	✓	105001



Built-in sockets PowerSAFE			400 A to 150 mm ²		600 A to 240 mm ²
L1	brown	✓	038851	✓	104987
L2	black	✓	038852	✓	104988
L3	grey	✓	038853	✓	104989
N	blue	✓	038854	✓	104990
PE	green	✓	038855	✓	104991



Protective cap			for plug		for coupling socket		for built-in plug		for built-in socket
L1	brown	✓	106545	✓	106540	✓	113312	✓	105561
L2	black	✓	106547	✓	106541	✓	113313	✓	105563
L3	grey	✓	106548	✓	106542	✓	113314	✓	105564
N	blue	✓	106544	✓	106539	✓	113315	✓	113311
PE	green	✓	106543	✓	106538	✓	113316	✓	105565

Item no.	Description
✓ 192533	PowerSAFE reducing seal for KV M40 for diameter <Ø 19 mm

✓ from stock, offer subject to prior sale

Note:

High current plugs and sockets PowerSAFE

- Compact switch box to disconnect high currents
- Ready-made single pole cable with PowerSAFE
- Cable sleeve reduction for different cross-sections
- Reduction thread for M40 for smaller cable diameter
- Application as recessed- or surface mounted boxes with PowerSAFE feed-in
- Reducing seal connection for M40 separately available for smaller cable diameters (Item no. 192533)

Compact switchbox for disconnecting high currents –
For greatest possible safety!



The PowerSAFE Box is a 5-pin connecting unit for connecting to a generator or the mains. The sequence of connecting and disconnecting is predetermined to ensure the safety circuits (PE+N) are the first to be connected and the last to be disconnected. The coded connections also prevent the possibility of incorrect contacts.

Functional description

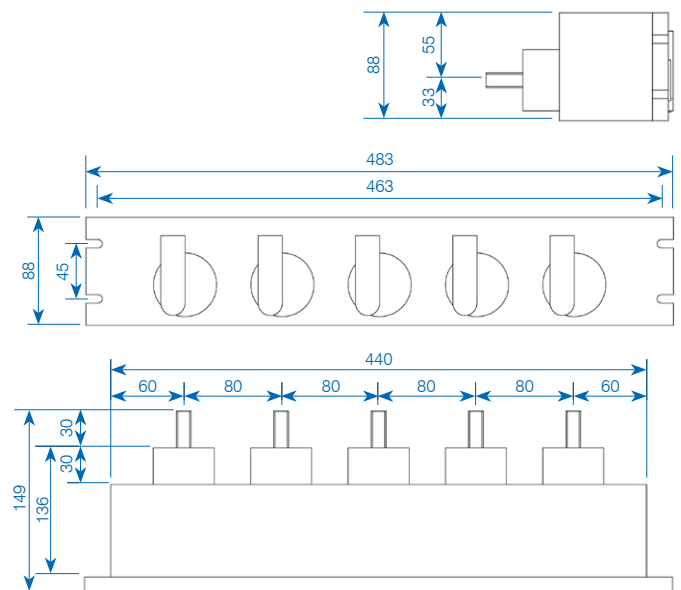
1. The cover of the earth connection is opened by rotating it clockwise using the special key provided. Insert the PE high current plug to the end stop and then rotate it clockwise (lock).
2. After inserting the earth conductor properly, the protective cover of the neutral conductor opens – also insert the neutral conductor to the end stop and then rotate it clockwise.
3. Connect all L1 to L3 phase conductors to the switchbox in the same way – comply with correct sequence!
Then the L3 phase conductor contact must also be locked with the special key in the clockwise direction. L3 is now also locked and unwanted disconnection is prevented.
4. The removing and unplugging of the individual conductors is carried out in reverse order and procedure: Open the lock at L3 using the special key L3 and undo all connections beginning with L3.
5. Important: All protective covers close automatically after removing the plug. (touch protection)

An external contactor, which only switches when all plug connectors are inserted, can be actuated with the microswitch installed in the box.

Dimensions:

Rack installation version 88×483×149 mm (H×W×D)

Version for installation in housing/wall 108×483×149 mm (H×W×D)



In any case, it must be excluded that the conductors could be connected or unplugged accidentally in the wrong order or individually to/from the unit.

Installation, 5 x units, PowerSAFE 800 A

Item no.	Description
✓ 134192	PowerSAFE Panel Box to 800 A 3PNE, 108×483×149 mm (H×W×D), wall/housing installation 5x unit installation couplings
✓ 144558	PowerSAFE Panel Box to 800 A 3PNE, 108×483×149 mm (H×W×D), wall/housing installation 5x unit installation plug

✓ from stock, offer subject to prior sale

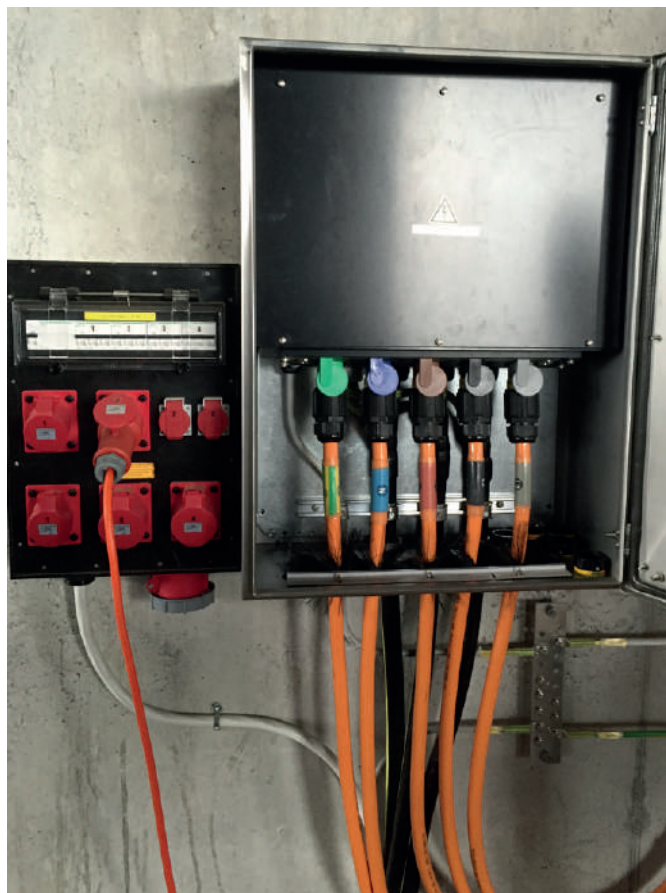


Connecting and extension lines with single conductor cable

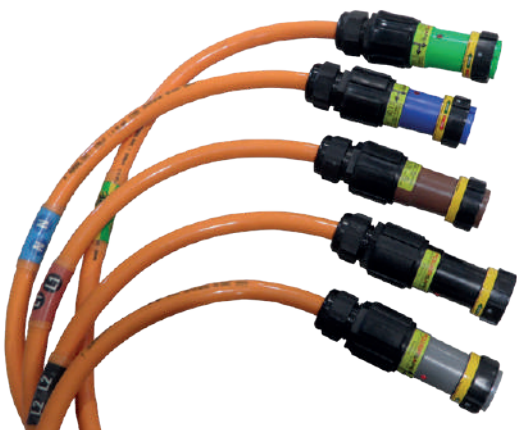
Connecting cable set 3P+N+NE completely ready-made and labelled



Item no.	Plug	Cable	Length	Cable socket
157660	400 A	4×95 mm ² /1×50 mm ²	5 m	95 mm ² /M12
157661	400 A	4×120 mm ² /1×95 mm ²	5 m	120 mm ² /M12
157893	400 A	4×120 mm ² /1×95 mm ²	10 m	120 mm ² /M12
141731	400 A	4×150 mm ² /1×95 mm ²	5 m	150 mm ² /M12
148347	400 A	4×150 mm ² /1×95 mm ²	10 m	150 mm ² /M12



Coupling cable set 3P+N+NE completely ready-made and labelled



Item no.	Con- nector	Cable	Length	Cable socket
180157	400 A	4×95 mm ² /1×50 mm ²	5 m	95 mm ² /M12
175473	400 A	4×120 mm ² /1×95 mm ²	5 m	120 mm ² /M12
180158	400 A	4×120 mm ² /1×95 mm ²	10 m	120 mm ² /M12
180159	400 A	4×150 mm ² /1×95 mm ²	5 m	150 mm ² /M12
180160	400 A	4×150 mm ² /1×95 mm ²	10 m	150 mm ² /M12

Extension cable set 3P+N+NE completely ready-made and labelled



Item no.	Plug	Cable	Length	Connector
157812	400 A	4×95 mm ² /1×50 mm ²	5 m	400 A
161262	400 A	4×95 mm ² /1×50 mm ²	20 m	400 A
157813	400 A	4×120 mm ² /1×95 mm ²	5 m	400 A
157895	400 A	4×120 mm ² /1×95 mm ²	10 m	400 A
163908	400 A	4×120 mm ² /1×95 mm ²	50 m	400 A
157814	400 A	4×150 mm ² /1×95 mm ²	5 m	400 A
157816	400 A	4×150 mm ² /1×95 mm ²	10 m	400 A



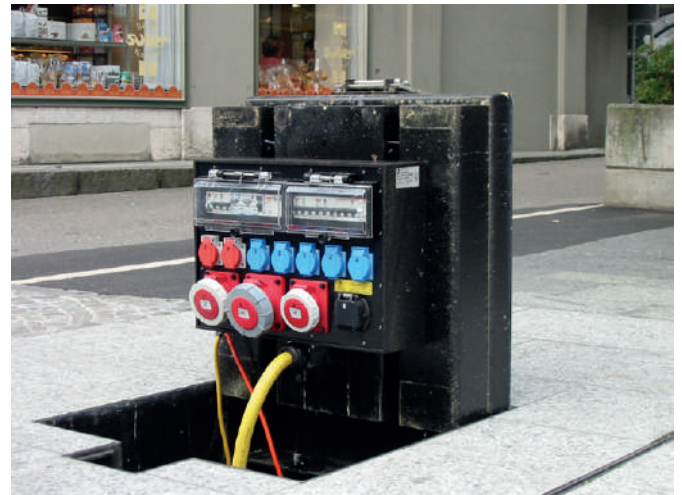
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