

GIFAS
E L E C T R I C



08
MAIN CATALOGUE



Plugs and Sockets

ELECTRIC SOLUTIONS

V0625

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Introduction

Plugs and sockets are indispensable for establishing and maintaining electrical connections – in specialised industrial or infrastructural areas as well as in everyday household applications. Explore our comprehensive standard range (with nickel-plated contacts), consisting of CH and CEE standards, as well as solutions for various special applications, e.g. in the high-current sector.

Material plastic

Our connectors are primarily made out of PA6 and PC/ABS. These technical plastics have the following properties:

- 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
- UV resistance tested according to ISO 4892-2
- 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 2011/65/EU

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 mm 2)
- high tensile strength ca. 500 N/mm 2 (MPa)
- 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 2011/65/EU

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

Temperatures

Ambient temperature

Plugs and sockets that comply with IEC 60884 for household plug connections are suitable for an ambient temperature of -5°C to +35°C/24 h, but not exceeding 40°C. IEC 60309-2 and EN IEC 60309 apply to CEE plugs and sockets that are used at ambient temperatures that usually do not exceed -25°C to +40°C.

Temperature resistance

Domestic sockets have a temperature resistance of up to +70°C, briefly up to +100°C for 1 hour; CEE sockets have a temperature resistance of -25°C to +80°C, briefly up to +100°C for 1 hour.

Connection terminals

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

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

- ✓ = from stock, offer subject to prior sale
- other versions available on request
- various accessories and spare parts available (protective caps, locking devices, replacement lids, etc.)

Introduction

Plugs and sockets 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 Connectors

- 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 crosssections 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

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 sockets

Type 13, 15, 23, 25

The entire CH-norm standard range for 10A and 16A (new) in the voltages 230/400V. All pins and sleeves are in a nickel-plated version.

As a result of the introduction of the new IP55 plug connection, the sockets previously labelled IP54/IP55 (e.g. NAP and NUP) may only be placed on the market after 1 January 2025 with the label IP20 for plugs and IP21 for sockets if they can guarantee the IP21 protection rating with the hinged lid open (and with the plug inserted)..

Plugs IP55 black



Item no.	Designation	No. of poles	Voltage (50-60Hz)	Strength of current
861813 ✓	Plug T13	P+N+PE	230V	10A
861823 ✓	Plug T23	P+N+PE	230V	16A
860815 ✓	Plug T15	3P+N+PE	230V/400V	10A
860825 ✓	Plug T25	3P+N+PE	230V/400V	16A

Right-angle plug IP55* black



Item no.	Designation	No. of poles	Voltage (50-60Hz)	Strength of current
861113 ✓	Right-angle plug T13	P+N+PE	230V	10A
861123 ✓	Right-angle plug T23	P+N+PE	230V	16A
861115 ✓	Right-angle plug T15	3P+N+PE	230V/400V	10A
861125 ✓	Right-angle plug T25	3P+N+PE	230V/400V	16A

* can only be used in combination with IP55 socket

Connectors IP55 black



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

CH-norm sockets

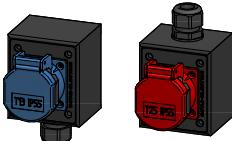
Type 13, 15, 23, 25

Built-in sockets IP55



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

Sockets surface mounting IP55



Item no.	Designation	Design	No. of poles	Voltage (50-60Hz)	Strength of current
228539 ✓	Socket T13	AP-M20 ¹⁾ or ²⁾	P+N+PE	250V	10A
228540 ✓	Socket T23	AP-M20 ¹⁾ or ²⁾	P+N+PE	230V	16A
228541	Socket T15	AP-M20 ¹⁾ or ²⁾	3P+N+PE	230V/400V	10A
228542	Socket T25	AP-M20 ¹⁾ or ²⁾	3P+N+PE	230V/400V	16A

¹⁾ cable gland from above

²⁾ cable gland from below

Principle of the voltage time switch (CEE)

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.

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

Operating voltage	Code colours
20-25V	violet
40-50V	white
100-130V	yellow
200-250V	blue
380-480V	red
500-690V	black
>60-500 Hz	green

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 over 50	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+PE												
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+PE												
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+PE												

View from the front of the Connector 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 50V and frequencies up to 500Hz and colour coding:

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

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

Plastic plugs CEE

Plastic plugs CEE IP44/IP54



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

* screwless

Plastic plugs CEE IP67



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

Plastic Connectors CEE

Plastic Connectors CEE IP44/IP54



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

* screwless

Plastic Connectors CEE IP67



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

Plastic slanted built-in sockets CEE

Plastic slanted built-in sockets CEE IP44/IP54



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

Plastic slanted built-in sockets CEE IP67



No. of poles	Strength of current	Item no.				
2P+PE	16A	055975 ✓	112089	130299	191980	
3P+PE	16A	053396	055976 ✓	043778		
3P+PE	32A		055978 ✓	043779	019422	
3P+PE	63A	162794	055988 ✓	043780	019425	
3P+PE	125A		056934	043781	147276	198932
3P+N+PE	16A	159010	055977 ✓	050751		
3P+N+PE	32A	144977	055980 ✓	029093 ✓		028490
3P+N+PE	63A	128330	055367 ✓	050750		028479
3P+N+PE	125A		056935 ✓	044381		

Plastic straight built-in sockets CEE

Plastic straight built-in sockets CEEIP44 / IP54



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

Plastic straight built-in sockets CEE IP67



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

Wall-mounted sockets CEE plastic, for wiring through/combinations

Plastic wall sockets CEE IP44



No. of poles	Strength of current	Cable connection	Item no.	Item no.	Item no.	Item no.	Item no.
2P+PE	16A	M25	056992 ✓	102569 ✓	181826	035521	034447
2P+PE	32A	M25	057216				100679
3P+PE	16A	M25	014400	056995 ✓	058038	043812	036122
3P+PE	32A	M25	025475	056997 ✓	043770	043814	016366
3P+N+PE	16A	M25	057194	056996 ✓	060051 ✓		034445
3P+N+PE	32A	M25	026902	056998 ✓	022065 ✓		100678
3P+N+PE	16A	M25		021637* ✓	033263*		
3P+N+PE	32A	M25		045997* ✓	105891*		

* for wiring through, cable connection from above and below

Plastic wall sockets CEE IP67



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

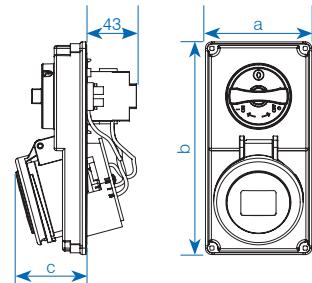
Wall socket combinations CEE in plastic IP44/IP54



No. of poles	Strength of current	Sockets	Cable glands	Item no.	Item no.
2P+PE	16A	CEE 16/3+T23	above, 2× below or at the back, Ø 20 mm (M25)	236901	
3P+N+PE	16A	CEE 16/5+T23	above, 2× below or at the back, Ø 20 mm (M25)		236902 ✓
3P+N+PE	16A	CEE 16/5+T25	above, 2× below or at the back, Ø 20 mm (M25)		236900 ✓
3P+N+PE	32A	CEE 32/5+T23	above, 2× below or at the back, Ø 20 mm (M25), protected by fuse 10A		236903 ✓

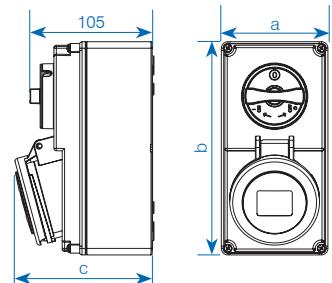
Switchable wall sockets CEE plastic

Switchable wall sockets IP44/IP54 without housing for fittings – compact range



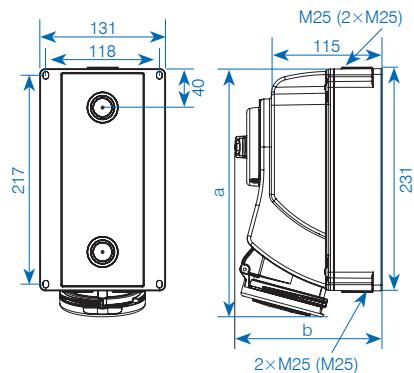
Item no.	No. of poles	Voltage (50-60Hz)	Strength of current	Dimensions
043836	3P+PE	400V	16A	a=90/b=180/c=59
043838	3P+N+PE	400V	16A	a=90/b=180/c=60
043837	3P+PE	400V	32A	a=90/b=180/c=66
043840	3P+N+PE	400V	32A	a=90/b=180/c=67

Switchable wall sockets IP44/IP54 including housing for fittings – compact range



Item no.	No. of poles	Voltage (50-60Hz)	Strength of current	Dimensions
043826	3P+PE	400V	16A	a=90/b=180/c=116
057219 ✓	3P+N+PE	400V	16A	a=90/b=180/c=117
043837	3P+PE	400V	32A	a=90/b=180/c=123
057221 ✓	3P+N+PE	400V	32A	a=90/b=180/c=124

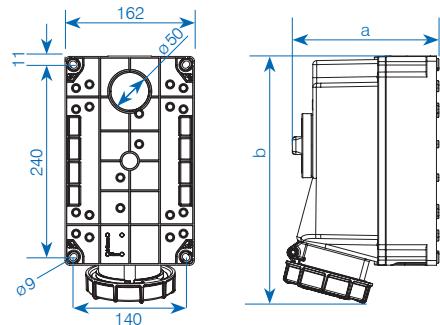
Switchable wall sockets IP44 including housing for AP installation



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

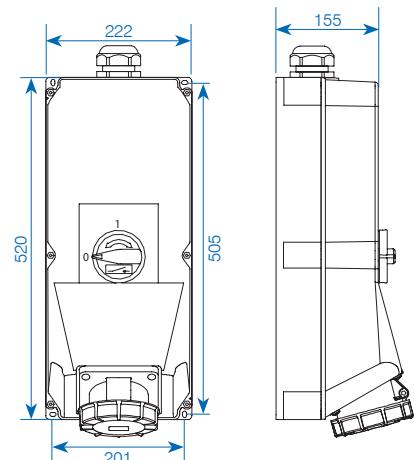
Switchable wall sockets CEE plastic

Switchable wall sockets IP67 including housing for fittings – mechanical interlock



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

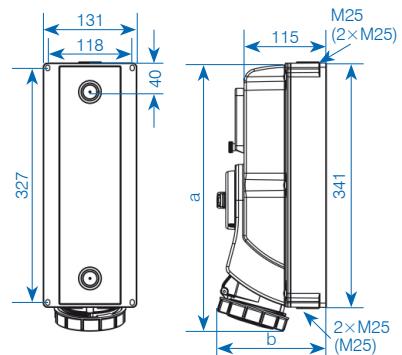
Switchable wall sockets IP67 with housing for fittings – mechanical interlock)



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

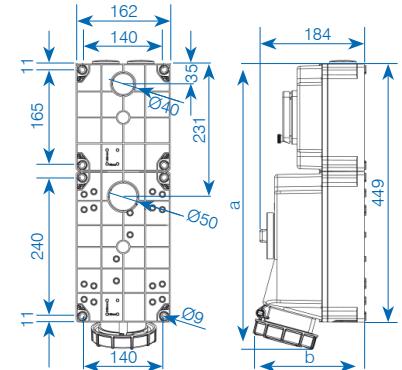
Switchable and fused wall sockets CEE plastic

Switchable wall sockets IP67 without housing for fittings – mechanical interlock



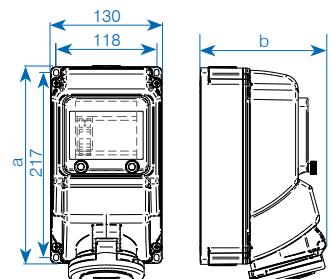
Item no.	No. of poles	Voltage (50-60Hz)	Strength of current	Dimensions
043819	3P+PE	400V	16A	a=361/b=153
057223 ✓	3P+N+PE	400V	16A	a=363/b=153
043821	3P+PE	400V	32A	a=371/b=153
057225 ✓	3P+N+PE	400V	32A	a=372/b=153

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



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

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



Item no.	No. of poles	Voltage (50-60Hz)	Strength of current	Protections	Dimensions
167618 ✓	3P+N+PE	400V	16A	FI 25A/30mA	a=230/b=140
167619 ✓	3P+N+PE	400V	16A	FI/LS 16A/30mA	a=230/b=140
167620 ✓	3P+N+PE	400V	32A	FI 40A/30mA	a=230/b=148
167621 ✓	3P+N+PE	400V	32A	FI/LS 32A/30mA	a=230/b=148

Plastic built-in equipment plugs CEE

Plastic built-in equipment plugs CEE IP44



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

Plastic built-in equipment plugs CEE IP67



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

Plastic wall equipment plugs CEE

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+PE	16A	M25	057008 ✓				
2P+PE	16A	M25	*043932 ✓				
2P+PE	32A	M25	057217				
3P+PE	16A	M25		057009	051283	051287	
3P+PE	32A	M25		057011	051284	051288	
3P+N+PE	16A	M25	141952	057010 ✓	116960		221129
3P+N+PE	16A	M25		046850* ✓			
3P+N+PE	32A	M25		057012 ✓	109288		225407
3P+N+PE	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.				
2P+PE	16A	M20	145002				
3P+PE	16A	M20		163946			
3P+N+PE	16A	M20		145001			
3P+N+PE	32A	M25		144999	216048		233322
3P+PE	63A	2×M32, 1×M40		057013 ✓	051285		
3P+PE	125A	2×M40, 1×M63		057015	051286		
3P+N+PE	63A	2×M32, 1×M40		057014 ✓	031013 ✓		193099 ✓
3P+N+PE	125A	2×M40, 1×M63		057016 ✓	168684 ✓		220261 ✓

Plastic low voltage/high frequency (CEE)

Plastic plug CEE IP44



No. of poles	Strength of current	Cable inlet	Item no.	Item no.	Item no.
2P	16A	with anti-kink sleeve	040494 ✓	043653 ✓	043855
2P	32A	with anti-kink sleeve	043659	043661	043858
3P	16A	with anti-kink sleeve	043654 ✓	043655 ✓	043856 ✓
3P	32A	with anti-kink sleeve	043662	043663	059620 ✓
3P	63A	with anti-kink sleeve			*011568 ✓

Plastic Connectors CEE IP44



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

Not suitable with HF solid rubber range 50V

Plastic low voltage/high frequency (CEE)

Plastic built-in sockets CEE IP44/IP54



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

Plastic wall sockets CEE IP44



No. of poles	Strength of current	Cable inlet	Item no.	Item no.	Item no.
2P	16A	with thread M25	043473	043694	043901
2P	32A	with thread M25	043698	043699	043905
3P	16A	with thread M25	043695	043696	043902
3P	32A	with thread M25	043700	043701	043906

Plastic built-in equipment plugs CEE IP44



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

Plastic wall equipment plugs CEE IP44



No. of poles	Strength of current	Cable inlet	Item no.	Item no.	Item no.
2P	16A	with thread M25	043738	043739	051303
2P	32A	with thread M25	043744	043746	051305
3P	16A	with thread M25	043740	043743	051306
3P	32A	with thread M25	043748	043749	051307

Not suitable with HF solid rubber range 50V

Solid rubber range plugs and Connectors CEE

Plugs/Connectors



Designation	Protection category	No. of poles	Strength of current	Cable inlet	Item no.	Item no.	Item no.
Plug	IP44	2P+PE	16A	M20	010049 ✓		
Plug	IP44	3P+N+PE	16A	M25		010101 ✓	
Plug	IP44	3P+N+PE	32A	M32		010105 ✓	
Plug	IP44	2P+PE	32A	for cable Ø13.5-23mm			010240 ✓



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



Designation	Protection category	No. of poles	Strength of current	Cable inlet	Item no.	Item no.	Item no.
Connector	IP44	2P+PE	16A	M20	010058 ✓		
Connector	IP44	3P+N+PE	16A	M25		010115 ✓	
Connector	IP44	3P+N+PE	32A	M32		010118 ✓	
Connector	IP44	2P+PE	32A	for cable Ø13.5-23mm			010244 ✓

Not suitable with HF solid rubber range 50V

Solid rubber range plugs and Connectors CEE

Built-in socket/Wall sockets



Designation	Protection category	No. of poles	Strength of current	Cable inlet	Item no.	Item no.	Item no.
Built-in socket	IP44	2P+PE	16A		010067 ✓		
Built-in socket	IP44	3P+N+PE	16A			010127* ✓ 010128** ✓	
Built-in socket	IP44	3P+N+PE	32A			010134 ✓	
Built-in socket	IP44	2P+PE	32A				010248 ✓

* Normal flange (100x100)

** Narrow flange (80x100)



Designation	Protection category	No. of poles	Strength of current	Cable inlet	Item no.	Item no.	Item no.
Wall socket	IP44	2P+PE	16A	M20	010081		
Wall socket	IP44	3P+N+PE	16A	M20		010146 ✓	
Wall socket	IP44	3P+N+PE	32A	M25		010149 ✓	
Wall socket	IP44	2P+PE	32A	M20			051269

Accessories

029353 Hard rubber adapter plate, rectangular 90x110 mm (for Busch-Nova)

033516 Conversion kit complete (adapter plate incl. seal), Busch-Nova to CEE 32A/3P

Special devices CEE

Diagnostic connector



Item no.	178679 ✓
Designation	Diagnostic connector
No. of poles	3P+N+PE
Voltage (50-60 Hz)	400V
Strength of current	16A
Protection category	IP20



Item no.	178681 ✓
Designation	Diagnostic connector
No. of poles	3P+N+PE
Voltage (50-60 Hz)	400V
Strength of current	32A
Protection category	IP20

Test plug



Item no.	056659
Designation	Test plug
No. of poles	3P+N+PE
Voltage (50-60 Hz)	400V
Strength of current	63A
Protection category	IP44

Phase inverter



Item no.	051309 ✓
Designation	Phase inverter
No. of poles	3P+N+PE
Voltage (50-60 Hz)	400V
Strength of current	16A
Protection category	IP44/IP54



Item no.	051310 ✓
Designation	Phase inverter
No. of poles	3P+N+PE
Voltage (50-60 Hz)	400V
Strength of current	32A
Protection category	IP44/IP54

Adapter CEE-Schuko



Item no.	050997 ✓
Designation	Adapter CEE-Schuko
No. of poles	2P+PE
Voltage (50-60 Hz)	230V
Strength of current	16A
Protection category	IP44
Input	CEE 16A-plug
Output	Shock-proof Connector with cover

Fixed adapter



Item no.	012146 ✓
Designation	Fixed adapter CEE7-T12
No. of poles	2P+PE
Voltage (50-60 Hz)	230V
Strength of current	10A
Protection category	IP20
Remark	Oneway mounting, not anymore demountable, with plug-in assistance

Special devices CEE

Panelmounted socket angled



Item no.	148316 ✓
No. of poles	2P+N+PE
Strength of current	16A
Protection category	IP44/IP54
Remark	Lockable with a padlock for camping- and harbour power connectors

Plug adapter



Item no.	029757 ✓
No. of poles	3P+N+PE
Strength of current	16A
Protection category	IP44
Input	CEE 32A
Output	CEE 16A via automatic cut-out

Plug adapter phase inverter



Item no.	029760 ✓
No. of poles	3P+N+PE
Strength of current	16A
Protection category	IP44
Input	CEE 32A
Output	CEE 16A via automatic cut-out

Multiple Connector with suspension



Item no.	050998 ✓
No. of poles	3P+N+PE
Strength of current	16A
Protection category	IP44
Input	CEE 16A
Output	3×CEE 16A



Item no.	029756 ✓
No. of poles	3P+N+PE
Strength of current	32A
Protection category	IP44
Input	CEE 32A
Output	3×CEE 16A

Right-angle plug phase inverter



Item no.	030550
No. of poles	3P+PE
Strength of current	16A
Protection category	IP44



Item no.	030551
No. of poles	3P+PE
Strength of current	16A
Protection category	IP67

Special devices CEE

Right-angle plug IP44



Item no.	030546
No. of poles	2P+PE
Strength of current	16A
Protection category	IP44
Remark	screwless plug

Right-angle plug IP67



Item no.	030547
No. of poles	2P+PE
Strength of current	16A
Protection category	IP67
Remark	screwless plug



Item no.	030548
No. of poles	3P+PE
Strength of current	16A
Protection category	IP44
Remark	screwless plug



Item no.	030549
No. of poles	3P+PE
Strength of current	16A
Protection category	IP67
Remark	screwless plug



Item no.	103274
No. of poles	3P+N+PE
Strength of current	16A
Protection category	IP44
Remark	screwless plug



Item no.	145739
No. of poles	3P+N+PE
Strength of current	16A
Protection category	IP67
Remark	screwless plug



Item no.	049955
No. of poles	3P+N+PE
Strength of current	16A
Protection category	IP44



Item no.	114811
No. of poles	3P+N+PE
Strength of current	32A
Protection category	IP67
Remark	screwless plug



Item no.	049956
No. of poles	3P+N+PE
Strength of current	32A
Protection category	IP44

RCCB safety adapters / FI safety plug

Personal safety switch PRCD, as intermediate cord device (without plug/cable)



Item no.	059069 ✓
Strength of current	16A/10mA
Voltage (50 - 60 Hz)	230V
Protection category	IP55
Remark	Type S (standard)



Item no.	109944 ✓
Strength of current	16A/30mA
Voltage (50 - 60 Hz)	230V
Protection category	IP55
Remark	Type K (for emergency power generator)



Item no.	222286 ✓
Strength of current	16A/30mA
Voltage (50 - 60 Hz)	230V
Protection category	IP55
Remark	Type S+ (standard)

FI safety plug



Item no.	264069 ✓
Strength of current	10A/30mA
Voltage (50 - 60 Hz)	230V
Protection category	IP55
Remark	PRCD

Multi-Connectors

T13, T23



Item no.	228543 ✓
Equipment	3×T13
No. of poles	P+N+PE
Strength of current	10A
Voltage (50-60 Hz)	230V
Protection category	IP55
Feed-in cable	–



Item no.	228506 ✓
Equipment	3×T13
No. of poles	P+N+PE
Strength of current	10A
Voltage (50-60 Hz)	230V
Protection category	IP55
Feed-in cable	5 m 3×1.5 mm² T13



Item no.	228521 ✓
Equipment	3×T13
No. of poles	P+N+PE
Strength of current	10A
Voltage (50-60 Hz)	230V
Protection category	IP55
Feed-in cable	10m 3×1.5 mm² T13



Item no.	228508 ✓
Equipment	3×T13
No. of poles	P+N+PE
Strength of current	10A
Voltage (50-60 Hz)	230V
Protection category	IP55
Feed-in cable	5 m 5×1.5 mm² T15



Item no.	228523
Equipment	3×T13
No. of poles	P+N+PE
Strength of current	10A
Voltage (50-60 Hz)	230V
Protection category	IP55
Feed-in cable	10m 5×1.5 mm² T15



Item no.	228544 ✓
Equipment	3×T23
No. of poles	P+N+PE
Strength of current	16A
Voltage (50-60 Hz)	230V
Protection category	IP54
Feed-in cable	–

Schuko, Schuko NF, Schuko F/B

Plug Schuko



Item no.	010343 ✓
No. of poles	P+N+PE
Strength of current	16A
Voltage (50 - 60 Hz)	250V
Protection category	IP54

Plug NF



Item no.	020336 ✓
No. of poles	2P+PE
Strength of current	16A
Voltage (50 - 60 Hz)	250V
Protection category	IP54

Connector Schuko



Item no.	010344 ✓
No. of poles	P+N+PE
Strength of current	16A
Voltage (50 - 60 Hz)	250V
Protection category	IP54

Connector NF



Item no.	020338 ✓
No. of poles	P+N+PE
Strength of current	16A
Voltage (50 - 60 Hz)	250V
Protection category	IP20 (if plugged in IP44)

Built-in socket Schuko



Item no.	014750 ✓
No. of poles	P+N+PE
Strength of current	16A
Voltage (50 - 60 Hz)	250V
Protection category	IP54

Built-in socket Schuko F/B



Item no.	039085 ✓
No. of poles	P+N+PE
Strength of current	16A
Voltage (50 - 60 Hz)	250V
Protection category	IP54

Various plugs and sockets Swiss standard



Item no.	243196 ✓
Designation	Plug type 12
No. of poles	2P+PE
Strength of current	10A
Voltage	230V
Protection category	IP20
Colour	black



Item no.	010365 ✓
Designation	Connector type 13
No. of poles	2P+PE
Strength of current	10A
Voltage	230V
Protection category	IP20
Colour	black



Item no.	054924 ✓
Designation	Plug type 12
No. of poles	2P+PE
Strength of current	10A
Voltage	230V
Protection category	IP20
Colour	white



Item no.	041991 ✓
Designation	Connector type 13
No. of poles	2P+PE
Strength of current	10A
Voltage	230V
Protection category	IP20
Colour	white



Item no.	010357 ✓
Designation	Distribution plug 3x type 13
No. of poles	P+N+PE
Strength of current	10A
Voltage (50-60 Hz)	230V
Protection category	IP20
Colour	black



Item no.	024274
Designation	Distribution plug 3x type 13
No. of poles	P+N+PE
Strength of current	10A
Voltage (50-60 Hz)	230V
Protection category	IP20
Colour	white



Item no.	044358 ✓
Designation	Plug type 23
No. of poles	P+N+PE
Strength of current	16A
Voltage (50-60 Hz)	230V
Protection category	IP20
Colour	black



Item no.	044365 ✓
Designation	Connector type 23
No. of poles	P+N+PE
Strength of current	16A
Voltage (50-60 Hz)	230V
Protection category	IP20
Colour	black

Various plugs and sockets Swiss standard, Built-in socket RJ45



Item no.	044374 ✓
Designation	Plug type 25
No. of poles	3P+N+PE
Strength of current	16A
Voltage (50 - 60 Hz)	230V/400V
Protection category	IP20
Colour	black



Item no.	044378 ✓
Designation	Connector type 25
No. of poles	3P+N+PE
Strength of current	16A
Voltage (50 - 60 Hz)	230V/400V
Protection category	IP20
Colour	black



Item no.	028498 ✓
Designation	Built-in socket 1×RJ45 Cat.6a Modul 8(8), incl. flat seal
Protection category	IP55
Colour	yellow



Item no.	026235 ✓
Designation	Built-in socket 2×RJ45 Cat.6a Modul 8(8), incl. flat seal
Protection category	IP55
Colour	yellow

High-current connectors PowerSAFE

As a result of the increased demand for temporary power generators which operate with high-voltage current in the areas of entertainment and industrial applications, selection of the high-current connector is particularly important, in order to guarantee safety and reliability for any application. The single-pole PowerSAFE connectors were developed for the connection of single- and three-phase high-current circuits. They have been used and tested in the world's harshest environments, from the oil fields of Canada to data processing centres in the Arctic Circle. They are the right choice for demanding applications on account of their impressive technical capacity, safety functions, robust design, reliability and quality. The standard safety functions include an additional locking system which requires a key to activate the connection. In addition, all electrical contacts on all plugs have finger-proof protection against electric shock, whereby the risk of accidental contact when switching on the connector is reduced. The connectors are available in line and panel mount format with either crimp or screw contacts. The PowerSAFE connectors can be used with single-core cables between 25 and 300 mm² for high current connections up to 800 A and are currently the highest rated and safest connectors of their type on the market.

The PowerSAFE connector's advanced contact design achieves its 800 A* continuous rating by utilising an arrangement of 29 transfer bridges. Each transfer bridge is rated at 30 A, giving a total of 870 A per contact.

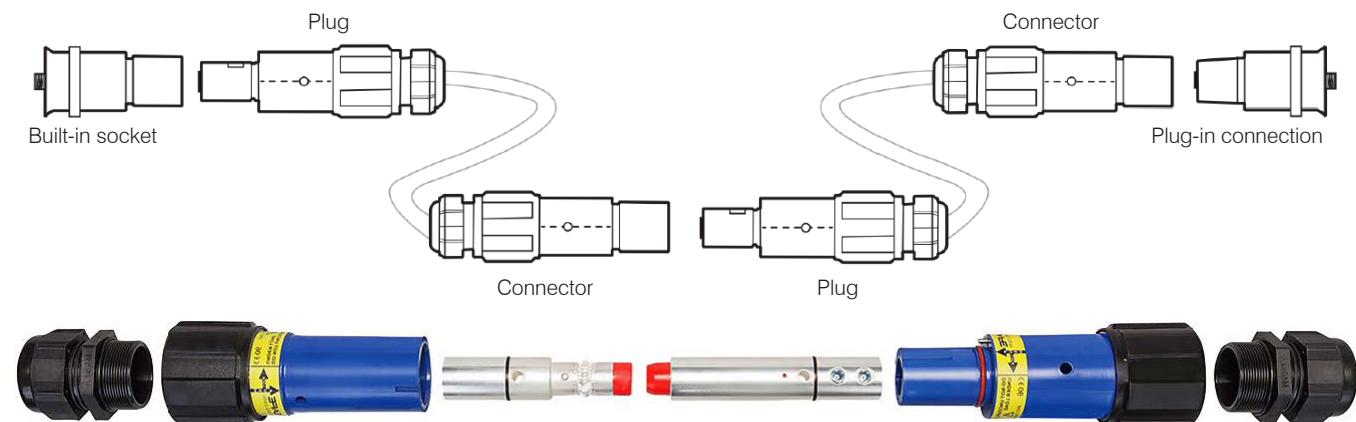
*Subject to environmental factors, cable choice, etc.



Product features

- maximum continuous current rating 800 A
- colour coded and mechanically keyed to prevent connection errors
- Flame retardant UL94-V0
- Locking mechanism to prevent accidental disconnection under load
- Finger proof contacts both genders (IP2X) to prevent access to electrical contacts when uncoupled
- silver-coated, self-cleaning contacts
- enhanced impact-resistant housing
- Protection category IP67
- for cables between 25 mm² and 300 mm²
- temperature resistant materials
- integrated cable strain relief
- Cable glands with generous clamping range
- Rubber protective caps to protect connectors from moisture, dirt and abrasion when uncoupled (optional)
- compatible with PowerLock, PowerLine, PowerFit and PowerSyntax
- CE-compliant in EN 60309-1, DIN-EN 61984 and IEC 60900

System



PowerSAFE

High-current connectors PowerSAFE

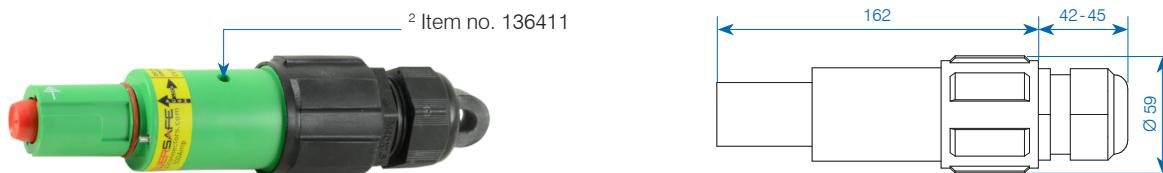
Technical Data	
No. of contacts	1
Max. continuous current rating	up to 800A
Surge current	75 kA
Short circuit rating	up to 35.5 kA
Cable cross sectional area C.S.A	25 mm ² to 300 mm ²
Contact termination	Screw or crimp connection
Mating method	Bayonet lock
Operating voltage	1'000 VAC
Max. rated voltage to earth:	2kVAC/3kVDC
Min. flashover	9.5 kVDC
Insulation resistance	>5MΩ@500VDC
Protection category	IP67
Protection against electric shock	IP2X
Flammability	UL94-V0
Mating cycles	> 500
Material housing	thermoplastic
Contact area	silver



Video tutorial for PowerSAFE assembly
You will find further technical information
in the PowerSAFE connector crimping guide

Plugs/Connectors and accessories

Plug

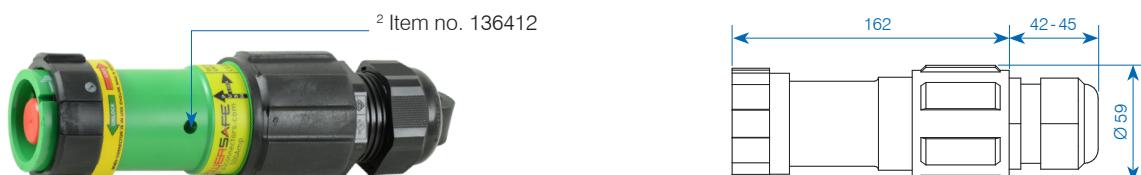


	Colour	Cable diameter 25-150 mm ² Screw connection max. 500 A	Cable diameter 185 mm ² Crimp connection max. 800 A	Cable diameter 240 mm ² Crimp connection max. 800 A	Protective cap
					IP44 IP67
L1	brown	Item no. 037821 ¹ ✓	Item no. 242728 ✓	Item no. 104992 ✓	Item no. 257463 ✓ 106545 ✓
L2	black	Item no. 037822 ¹ ✓	Item no. 242729 ✓	Item no. 104993 ✓	Item no. 257463 ✓ 106547 ✓
L3	grey	Item no. 037823 ¹ ✓	Item no. 242730 ✓	Item no. 104994 ✓	Item no. 257463 ✓ 106548 ✓
N	blue	Item no. 037824 ¹ ✓	Item no. 242731 ✓	Item no. 104995 ✓	Item no. 257463 ✓ 106544 ✓
PE	yellow-green	Item no. 037825 ¹ ✓	Item no. 242732 ✓	Item no. 104996 ✓	Item no. 257463 ✓ 106543 ✓

¹ PowerSAFE reduction sleeve set 95 mm²/70 mm²/50 mm²/35 mm²/25 mm² (Item no. 147795) incl. nozzle

² Accessories/spare parts: Item no. 136411 (47 mm)

Connector with Rotalock



	Colour	Cable diameter 25-150 mm ² Screw connection max. 500 A	Cable diameter 185 mm ² Crimp connection max. 800 A	Cable diameter 240 mm ² Crimp connection max. 800 A	Protective cap
					IP44 IP67
L1	brown	Item no. 037816 ¹ ✓	Item no. 242722 ✓	Item no. 104981 ✓	Item no. 257462 ✓ 106540 ✓
L2	black	Item no. 037817 ¹ ✓	Item no. 242724 ✓	Item no. 104982 ✓	Item no. 257462 ✓ 106541 ✓
L3	grey	Item no. 037818 ¹ ✓	Item no. 242725 ✓	Item no. 104984 ✓	Item no. 257462 ✓ 106542 ✓
N	blue	Item no. 037819 ¹ ✓	Item no. 242726 ✓	Item no. 104985 ✓	Item no. 257462 ✓ 106539 ✓
PE	yellow-green	Item no. 037820 ¹ ✓	Item no. 242727 ✓	Item no. 104986 ✓	Item no. 257462 ✓ 106538 ✓

¹ PowerSAFE reduction sleeve set 95 mm²/70 mm²/50 mm²/35 mm²/25 mm² (Item no. 147795) incl. nozzle

² Accessories/spare parts: Item no. 136411 (47 mm)



¹ Item no. 147795



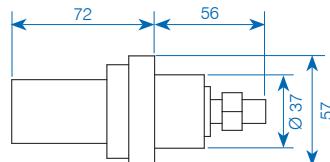
² Item no. 136411 (47 mm)
² Item no. 136412 (43mm)



Available on request:
Right-angled plug connector (90° angle)
for plug and coupling **without** Rotalock
Cable cross-section max. 240 mm²/800 A

Plug-in connectors/Built-in sockets and accessories

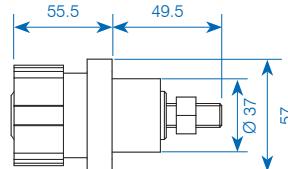
Plug-in connector



	Colour	Screw connection thread M12 max. 500 A	Screw connection thread M12 max. 800 A	Protective cap	
				IP44	IP67
L1	brown	038856 ✓	104997 ✓	257465 ✓	113312 ✓
L2	black	038857 ✓	104998 ✓	257465 ✓	113313 ✓
L3	grey	038858 ✓	104999 ✓	257465 ✓	113314 ✓
N	blue	038859 ✓	105000 ✓	257465 ✓	113315 ✓
PE	yellow-green	038860 ✓	105001 ✓	257465 ✓	113316 ✓

³ 45° adapter kit incl. screws for mounting

Built-in socket with Rotalock



	Colour	Screw connection thread M12 max. 500 A	Screw connection thread M12 max. 800 A	Protective cap	
				IP44	IP67
L1	brown	038851 ✓	104987 ✓	257464 ✓	105561 ✓
L2	black	038852 ✓	104988 ✓	257464 ✓	105563 ✓
L3	grey	038853 ✓	104989 ✓	257464 ✓	105564 ✓
N	blue	038854 ✓	104990 ✓	257464 ✓	113311 ✓
PE	yellow-green	038855 ✓	104991 ✓	257464 ✓	105565 ✓

³ 45° adapter kit incl. screws for mounting



³ Item no. 240089



Compact switchbox

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

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!



Built-in connector box

144558 ✓ PowerSAFE Panel Box up to 800A 3LNPE 108×483×149 mm (H×B×T), wall/housing assembly, 5-fold unit

Built-in socket box

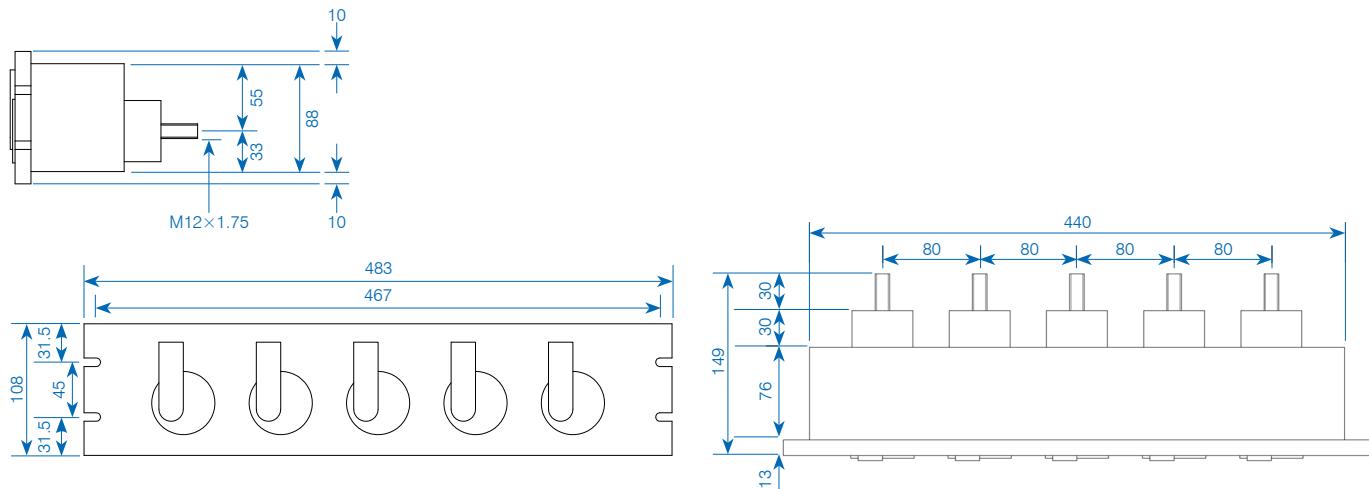
177113 PowerSAFE Panel Box up to 800A 3LPE 108×483×149 mm (H×B×T), wall/housing assembly, 4-fold unit

134192 ✓ PowerSAFE Panel Box up to 800A 3LNPE 108×483×149 mm (H×B×T), wall/housing assembly, 5-fold unit

130131 PowerSAFE Panel Box up to 800A 3LNPE 2HE 88×483×149 mm (H×W×D), for Rack mounting, 5-fold unit

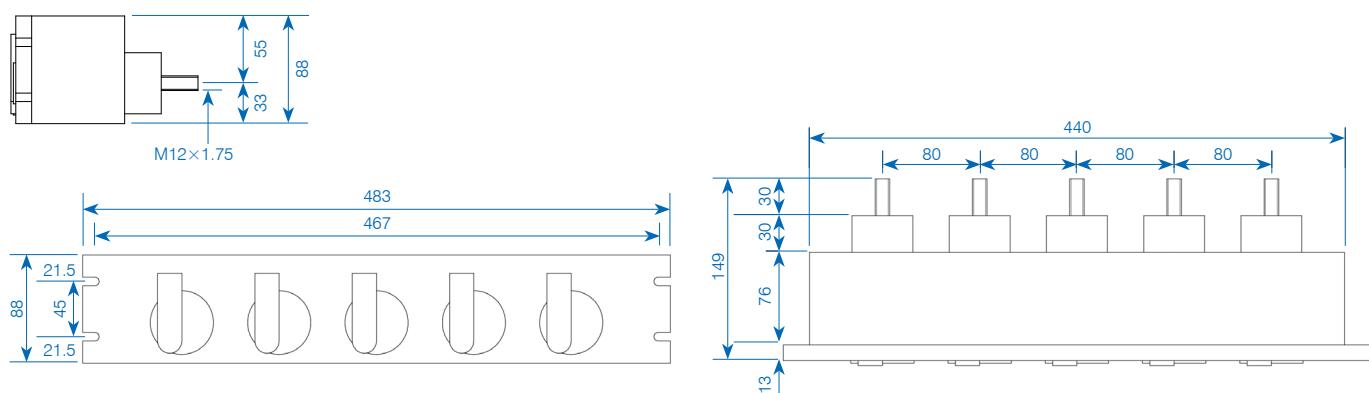
Dimensions Item no. 134192 und 144558

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



Dimensions Item no. 130131

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



PowerSAFE

Cable sets

Connection cable set 3P+N+NE, ready-made and labelled



Item no.	Plug	Cable	Length	Cable socket
157660	500 A	4×95 mm ² /1×50 mm ²	5m	95 mm ² /M12
157661	500 A	4×120 mm ² /1×95 mm ²	5m	120 mm ² /M12
157893	500 A	4×120 mm ² /1×95 mm ²	10m	120 mm ² /M12
141731	500 A	4×150 mm ² /1×95 mm ²	5m	150 mm ² /M12
148347	500 A	4×150 mm ² /1×95 mm ²	10m	150 mm ² /M12

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



Item no.	Plug	Cable	Length	Cable socket
180157	500 A	4×95 mm ² /1×50 mm ²	5m	95 mm ² /M12
175473	500 A	4×120 mm ² /1×95 mm ²	5m	120 mm ² /M12
180158	500 A	4×120 mm ² /1×95 mm ²	10m	120 mm ² /M12
180159	500 A	4×150 mm ² /1×95 mm ²	5m	150 mm ² /M12
180160	500 A	4×150 mm ² /1×95 mm ²	10m	150 mm ² /M12

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



Item no.	Plug	Cable	Length	Connector
157812	500 A	4×95 mm ² /1×50 mm ²	5m	500 A
161262	500 A	4×95 mm ² /1×50 mm ²	20m	500 A
157813	500 A	4×120 mm ² /1×95 mm ²	5m	500 A
157895	500 A	4×120 mm ² /1×95 mm ²	10m	500 A
163908	500 A	4×120 mm ² /1×95 mm ²	50m	500 A
157814	500 A	4×150 mm ² /1×95 mm ²	5m	500 A
157816	500 A	4×150 mm ² /1×95 mm ²	10m	500 A



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