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# Plug connectors

Catalogue



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## The principle of the voltage clock (time setting)

The position of the protective earth contact relative to the unchangeable lug or slot on the housing indicates the time. The lug or slot is in the 6 o'clock position on all designs. Unlike the lug or slot, the protective earth contact takes its standardised time setting from the required electrical values. In order to facilitate simple product identification, the various clock settings are assigned based on the colours defined by the standard.

**The position of the protective contact socket relative to the polarising slot for various operating voltages (V) and frequencies (Hz) based on IEC 60309.**

### Operating voltage colours

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

### Identifying

violet  
white  
yellow  
blue  
red  
black  
green

Time setting on the protective contact and coloured identification:

	4 o'clock	9 o'clock	6 o'clock	11 o'clock	7 o'clock	5 o'clock	12 o'clock	1 o'clock	10 o'clock	2 o'clock	3 o'clock	8 o'clock
Frequency in Hz	50-60	50-60	50-60	60	50-60	50-60	50-60	-	100-300	Over 300 Up to 500	50-60	
Voltage in 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+32 A	
5-pole 3P+N+E												
Voltage in 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+32 A	
4-pole 3P+E												
Voltage in V	100-130	380-415	200-250		480-500	277*	Voltages after isolating transformer		*		> 50 - 250 direct current	> 250 direct current
3-pole 2P+E												

View of the front of the coupling sockets on the contact sockets / 63A + 125A plug connections with pilot contact

\*These designs are not standardised.


Position of the auxiliary lug relative to the base lug for voltages up to 50 V and frequencies up to 500 Hz and colour identification:

	-	12 o'clock	4 o'clock	2 o'clock	3 o'clock	11 o'clock	10 o'clock
Frequency in Hz	50-60	50-60	100-200	300	400	Over 400 Up to 500	GS
Voltage in V	20-25	40-50	40-50	Up to 50	Up to 50	Up to 50	Up to 50
2-pole							
3-pole							

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

## Solid rubber protective contact plug connectors

### Product properties

- Resistant to most oils, acids and alkalis
- Chromated screws
- Flame-retardant as per EN 60695-2-13
- Corrosion-resistant as per IEC 60884-1
- Screwless, outer strain relief (shortened connection time)
- Heat resistance from -40°C to + 120°C
- Unbreakable solid rubber body, apart from protective contact built-in socket
- Large connecting spaces ensure problem-free connection of the supply cable to the plugs, connectors and sockets.
- Simple connection technique
- Ergonomic shape for perfect ease of handling
-  for harsh conditions



### Protective contact plug

Art. No.	Pole No.	Amperes	Protection category
108071	2P+E	16	IP 44



### Protective contact connector

Art. No.	Pole No.	Amperes	Protection category
108113	2P+E	16	IP 44



### Protective contact 3-way connector

Art. No.	Pole No.	Amperes	Protection category
102328	2P+E	16	IP 44



### Protective contact built-in socket (made from plastic)

with flap cover and flange seal

Art. No.	Pole No.	Amperes	Protection category
246198	2P+E	16	IP 54*

\*Note! Compliant with BGI 608. IP 54 when connected!

## Solid rubber low-voltage CEE plug connectors for 24/42 V

### Product properties

- Resistant to most oils, acids and alkalis
- SS screws set in brass press-fit bushings with dual anchor
- Flame-retardant as per DIN IEC 695
- Unbreakable solid rubber body
- Corrosion-resistant
- Large connecting spaces ensure problem-free connection of the supply cable to the plugs, connectors and sockets.
- Ergonomic shape for perfect ease of handling

### CEE plug

Article No. 24V 50-60 Hz	Article No. 42V 50-60 Hz	Pole No.	Amperes	Protection category IP
239558		2	16	54
	239640	2	16	54



### CEE connector

Article No. 24V 50-60 Hz	Article No. 42V 50-60 Hz	Pole No.	Amperes	Protection category IP
101545		2	16	54
	108197	2	16	54



### CEE built-in socket

Article No. 24V 50-60 Hz	Article No. 42V 50-60 Hz	Pole No.	Amperes	Protection category IP
101550		2	16	54
	102771	2	16	54



### CEE mounted socket (not shown)

Article No. 24V 50-60 Hz	Article No. 42V 50-60 Hz	Pole No.	Amperes	Protection category IP
101547		2	16	54
	102765	2	16	54

## Solid rubber CEE plug connectors for 230V/400V

### Product properties

- Resistant to most oils, acids and alkalis
- SS screws set in brass press-fit bushings with dual anchor
- Flame-retardant as per DIN IEC 695
- Unbreakable solid rubber body
- Corrosion-resistant
- Large connecting spaces ensure problem-free connection of the supply cable to the plugs, connectors and sockets.
- Ergonomic shape for perfect ease of handling



IP 44



IP 44



IP 67



IP 44



IP 44

### CEE plug

Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Pole No.	Amperes	Protection category IP
122183		3	16	44
	107183	5	16	44
	107165	5	32	44
	118827	5	63	67

### CEE connector

Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Pole No.	Amperes	Protection category IP
120150		3	16	44
	107147	5	16	44
	107134	5	32	44
	122100	5	63	67

### CEE built-in socket

Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Pole No.	Amperes	Protection category IP
101401		3	16	44
	101993	5	16	44
	102095	5	32	44

### CEE mounted socket

Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Pole No.	Amperes	Protection category IP
101394		3	16	44
200278		5	32	44
	101978	5	16	44
	102085	5	32	44
	102234	5	63	67

## Plastic low-voltage CEE plug connectors for 24/42 V and high frequency

### Product properties

- Excellent impact resistance combined with first-class stability
- High thermal stability
- Very good insulating properties
- High dielectric strength
- High wear resistance
- High weather resistance
- Excellent chemical resistance to a large number of different chemicals
- Temperature resistant from -25°C to +80°C, for a short time  
1 h + 100°C
- Contacts made from a copper/zinc alloy with high electrical conductivity, high tensile strength and high corrosion resistance

### CEE plug

Article No. 24V 50-60Hz	Article No. 42V 50-60Hz	Article No. >50-500V 100-300 Hz	Pole No.	Amperes	Protection category IP
235293			2	16	44
279346			2	32	44
	240057		2	16	44
	240059		2	32	44
		231183	4	16	44
		262474	4	32	44



### CEE connector

Article No. 24V 50-60Hz	Article No. 42V 50-60Hz	Article No. >50-500V 100-300Hz	Pole No.	Amperes	Protection category IP
244364			2	16	44
279347			2	32	44
	240058		2	16	44
	240060		2	32	44
		264656	4	16	44
		256393	4	32	44



### CEE built-in socket straight design

Article No. 24V 50-60Hz	Article No. 42V 50-60Hz	Article No. >50-500V 100-300Hz	Pole No.	Amperes	Protection category IP
248891			2	16	44
259481			2	32	44
	240201		2	16	44
	262216		2	32	44
		209188	4	16	44
		255918	4	32	44





## Plastic CEE plug connectors for 230V/400V/500V

### Product properties

- Excellent impact resistance combined with first-class stability
- High thermal stability
- Very good insulating properties
- High dielectric strength
- High wear resistance
- High weather resistance
- Excellent chemical resistance to a large number of different chemicals
- Temperature resistant from -25°C to +80°C, for a short time  
1 h + 100°C
- Contacts made from a copper/zinc alloy with high electrical conductivity, high tensile strength and high corrosion resistance

### CEE plug



Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Article No. 500V 50-60 Hz	P o l e No.	Amperes	Protection category IP
269081			3	16	44
253627			3	32	44
277555			3	63	67
	240573		5	16	44
	240572		5	32	44
	233756		5	63	67
		259310	4	16	44
		245003	4	32	44
		244075	4	63	67

### CEE connector



Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Article No. 500V 50-60 Hz	P o l e No.	Amperes	Protection category IP
236154			3	16	44
253626			3	32	44
277557			3	63	67
	240575		5	16	44
	240574		5	32	44
	233758		5	63	67
		259311	4	16	44
		245004	4	32	44
		245002	4	63	67

### CEE built-in socket angled design



Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Article No. 500V 50-60 Hz	P o l e No.	Amperes	Protection category IP
200080			3	16	44
209820			3	32	44
277824			3	63	67
	200081		5	16	44
	200079		5	32	44
	133807		5	63	67
		242376	4	16	44
		241843	4	32	44
		241840	4	63	67

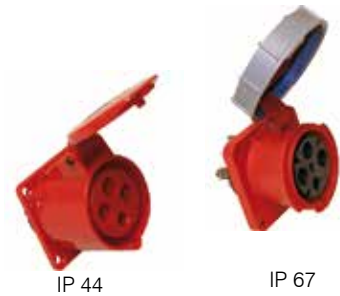


**Plastic CEE plug connectors for 230V/400V/500V**
**Product properties**

- Excellent impact resistance combined with first-class stability
- High thermal stability
- Very good insulating properties
- High dielectric strength
- High wear resistance
- High weather resistance
- Excellent chemical resistance to a large number of different chemicals
- Temperature resistant from -25°C to +80°C, for a short time  
1 h + 100°C
- Contacts made from a copper/zinc alloy with high electrical conductivity, high tensile strength and high corrosion resistance

**CEE built-in socket straight design**

Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Article No. 500V 50-60 Hz	P o l e No.	Amperes	Protection category IP
200195			3	16	44
230501			3	32	44
279345			3	63	67
	203538		5	16	44
	203537		5	32	44
	125273		5	63	67
		208969	4	16	44
		202925	4	32	44
		202802	4	63	67


**CEE mounted socket**

Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Article No. 500V 50-60 H	P o l e No.	Amperes	Protection category IP
	269084		5	16	44
	269085		5	32	44
	259996		5	63	67
		254371	4	16	44
		279429	4	32	44
		279430	4	63	67


**CEE built-in connector plug**

Article No. 230V 50-60 Hz	Article No. 400V 50-60 Hz	Article No. 500V 50-60 H	P o l e No.	Amperes	Protection category IP
101410			3	16	44
	102003		5	16	44
	102103		5	32	44
	102246		5	63	67
		124772	4	16	44
		103163	4	32	44
		103201	4	63	67

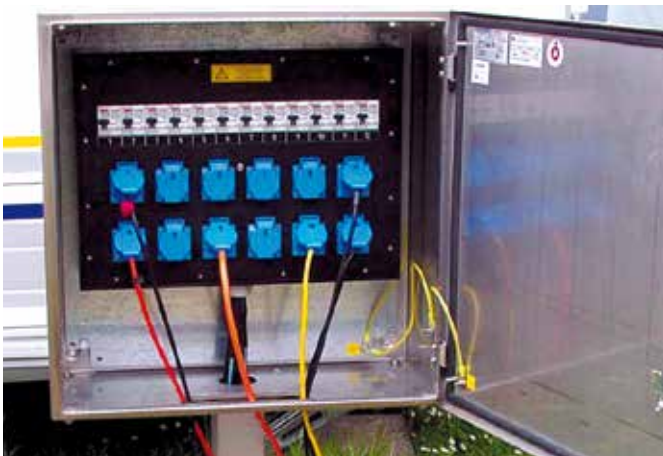




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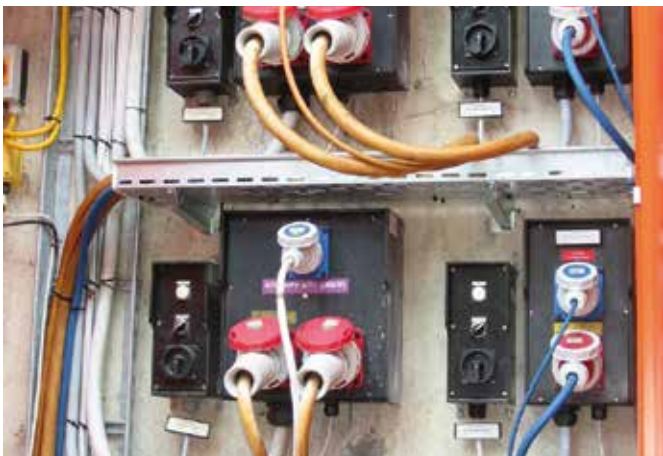
Cable reels



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Mobile distributors



Wall-mounted distributors



Transformer



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