



### **BIG, EVEN ON A SMALL SCALE.**

Unbreakable, resistant to most oils, acids and alkalis, flame retardant and corrosion resistant: Plug connections made of solid rubber are a plus in every respect. Use our extensive range of CEE and special connectors in extraordinary situations or choose one of our standard plastic connectors for everyday use.

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## Features

### Solid rubber plug connectors



## Features

### Plastic plug connectors



#### Solid rubber

Plug connections made of solid rubber are made of 100% vulcanised, self-extinguishing butyl caoutchouc (Shore hardness 97) in accordance with VDE 0471 part 2.2. They are resistant to oils, various acids and alkalis as well as showers of sparks from welding.



#### Plastic

We guarantee a heavy load-bearing capacity as well as high impact resistance in our plastic products. The selected material is UV- and media-resistant as well as heat and cold resistant (from -40°C to 80°C). The right solution for typical use in trade and industry.



#### Vulcanised

VA, double anchor screws with stainless brass press-in sockets are inserted into the housing. The peer-to-peer material connection and the solid rubber provide maximum impermeability and the avoidance of condensation due to e.g., temperature fluctuations.



#### Connected accurately

All components have been manufactured and assembled according to the current quality standards.



#### Durability

Featuring elastic deformability that leads to reducing the possibility of breakage due to the use of solid rubber. Suitable for use in demanding environments.



#### Range of application

KU connectors are used daily in industrial applications under normal, ambient conditions. Durable and reliable.



#### Tension

Proven to relieve tension in the connecting cable. Safe, practical and durable.



#### Quick acting closure

Built-in tension relief thanks to the simple twist-closing of cap and housing receptacle.

**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

## Solid rubber protective contact plug connectors

### Product features

- 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

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



### Protective contact connector

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



### Protective contact 3-way connector

Item 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

Item 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 features**

- 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**

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



**CEE connector**

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



**CEE built-in socket**

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



**CEE mounted socket (not shown)**

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

# Solid rubber CEE plug connectors



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

### Product features

- 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

### CEE plug

Item no. 230V 50-60 Hz	Item 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



IP 44

### CEE connector

Item no. 230V 50-60 Hz	Item no. 400V 50-60 Hz	Pole No.	Amperes	Protection category IP
120150		3	16	44
	107147	5	16	44
	107134	5	32	44



IP 67

### CEE built-in socket

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



IP 44

### CEE mounted socket

Item no. 230V 50-60 Hz	Item 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



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

**Product features**

- 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**

Item no. 24V 50-60Hz	Item no. 42V 50-60Hz	Item 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**

Item no. 24V 50-60Hz	Item no. 42V 50-60Hz	Item 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**

Item no. 24V 50-60Hz	Item no. 42V 50-60Hz	Item 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 features

- 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



Item no. 230V 50-60 Hz	Item no. 400V 50-60 Hz	Item 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



Item no. 230V 50-60 Hz	Item no. 400V 50-60 Hz	Item 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



Item no. 230V 50-60 Hz	Item no. 400V 50-60 Hz	Item 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 features

- 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

Item no. 230V 50-60 Hz	Item no. 400V 50-60 Hz	Item 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



IP 44



IP 67

### CEE mounted socket

Item no. 230V 50-60 Hz	Item no. 400V 50-60 Hz	Item 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



IP 44



IP 67

### CEE built-in connector plug

Item no. 230V 50-60 Hz	Item no. 400V 50-60 Hz	Item 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



IP 44



IP 67

Use cases based on wall mounted distributors / mobile distributors / energy columns



Wall mounted distributor



Wall mounted distributor



Wall mounted distributor



Mobile distributors



Energy columns





## Use cases based on cable reels / wall mounted distributors / transformers / unterfloor distributors



Cable reel



Cable reel



Mobile distributors



Transformer



Unterfloor distributors

## **WE ARE EXPERTS IN YOUR FIELD**

Construction industry  
Industrial sector

### **Plug connectors**

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solution for you on our  
website and read all the  
latest news about our  
products.

