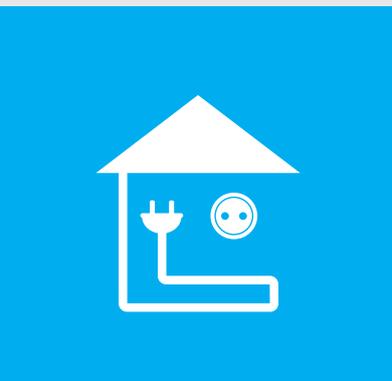
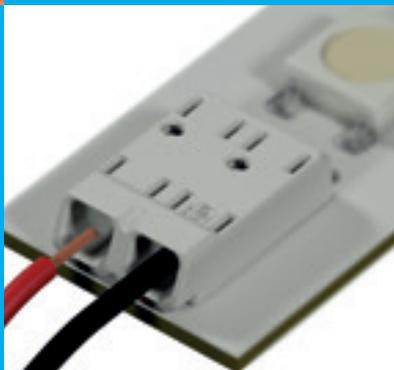
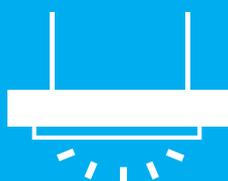


The Safe Contact Worldwide

Products & Applications 16/17





Follow us:





The Company	2
Product and Application Overview	4
Special LED products	14
Installation Plug Connectors 166®	22
Low Voltage Connectors AC 162	54
Connecting System 160/163	57
Connectors RIAC 8 pole	59
Luminaire Connectors/Block Connectors, LINECT®	60
Screw-Screwless/Fused Connectors	70
Screw/Fused Connectors	75
Transformer Connectors	88
(Pluggable) Print Connectors	95
Other Connectors	109
Technical Information	113
Index of Order Numbers	116



The Safe Contact Worldwide – our Vision

Safe, innovative and high-quality products play the major role within the connection technology. Since 1930, Adels-Contact has been synonymous for intelligent high-end solutions. Our medium-sized company structure is dominated by innovative thinking, customer orientation and transparent processes. Long-term, highly qualified employees stand for competence and stability. Our guiding principle “the safe contact worldwide” stands for innovative strength, product quality and customer focus. The Adels-Contact corporate principles define our values that have developed and practiced over 85 years:

- sustained value created by intelligent solutions:
 - easier and more economic
- long-time expert knowledge for new solutions and long durability of our products
- maximum quality
- rapid “time-to-market” for full customer satisfaction
- business on the principle of ecological sustainability – now and for future generations



AEELS High Quality Products

Continuous technical innovations, complying with highest standards characterise our day-to-day business. Compliance with all standards such as RoHS, WEEE, PFOS, REACH and CE as well as certification according to DIN EN ISO 9001 and DIN EN ISO 14001 document the reliability of our products.

More than half a million terminal blocks and (pluggable) connectors leave our factory in Bergisch Gladbach every day. Our top-quality safety products are important components in the lighting technology, in electrical appliances and in electronics. Our development focus in the fields of LED and electrical installation shows that we are in tune with the times.

As a result, we are continuously producing new products and variants within our standard product range or customized applications, also with small or medium-sized quantities. This is how we perform with our well-known customers. In Germany, Europe and worldwide.

Superior Service included

We see the entire process through with your personal contact. Trust in a full-range project support tailored to your specific needs. Directly and on site. For special solutions, for small or large quantities. Reliable. Responsible. Personal.

Competence in Figures

- 300 employees
- 60 international patents
- 130 approvals
- 5 productions sites
- 45 distributors all over the world
- export to more than 60 countries



Product and Application Overview



Special LED products

Installation Plug Connectors AC 166®

Low Voltage Connectors AC 162

Connecting System 160/163

Connectors RIAC 8 pole



Lighting

22

54

57

59



LED

14

22

57

59



Installation

14

22

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57



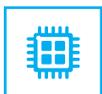
Electrical Appliances

22

57



Transformers



Electronics

14

57



Luminaire/
Block Connectors,
LINECT®

Screw-
Screwless/Fused
Connectors

Screw/Fused
Connectors

Transformer
Connectors

(Pluggable) Print
Connectors

Other
Connectors



60

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109

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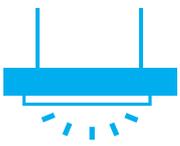
95

109

95

109

You will find these pictograms in the outside margin of each page. They refer to the relative main applications of the connectors shown.



Lighting

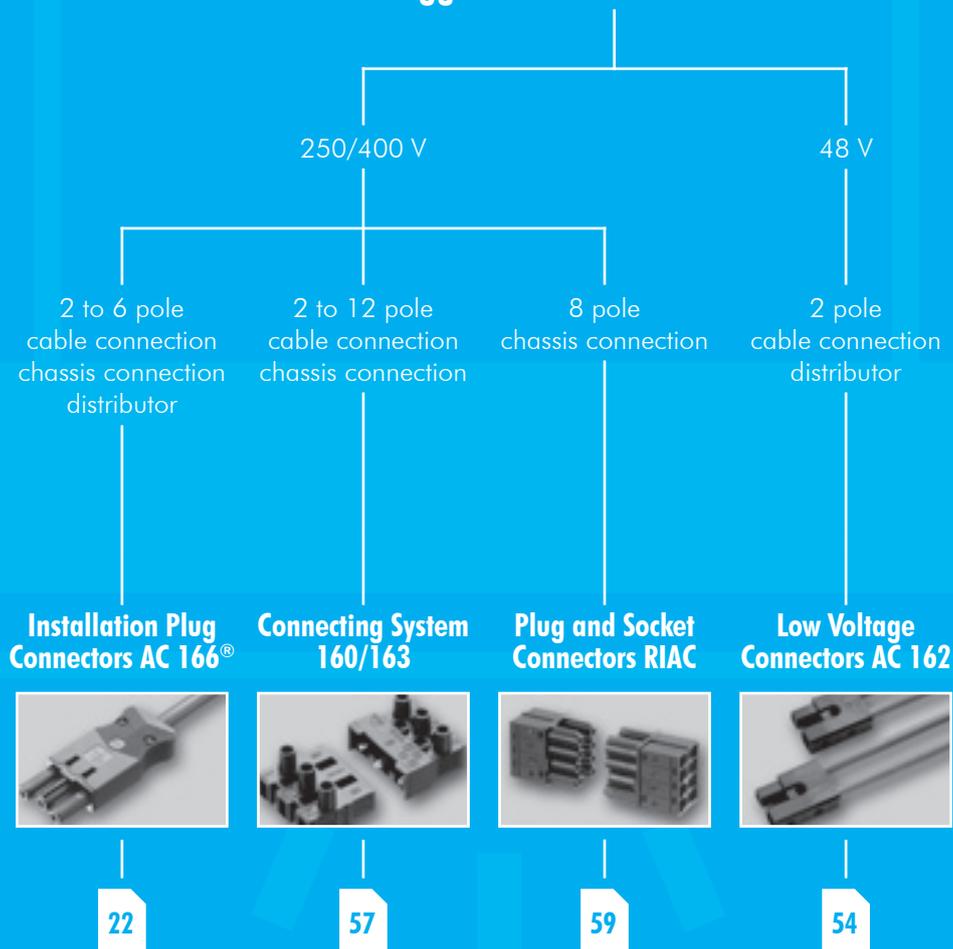


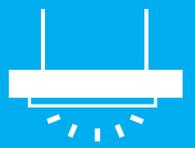
Our Solutions

For 30 years, Adels-Contact has been specialist in the lighting connection technology. The result is a wide range for almost any kind of application: high or low voltage, cable or

chassis connection, screw or screwless contacts as well as for any mounting method of connectors and plug connectors.

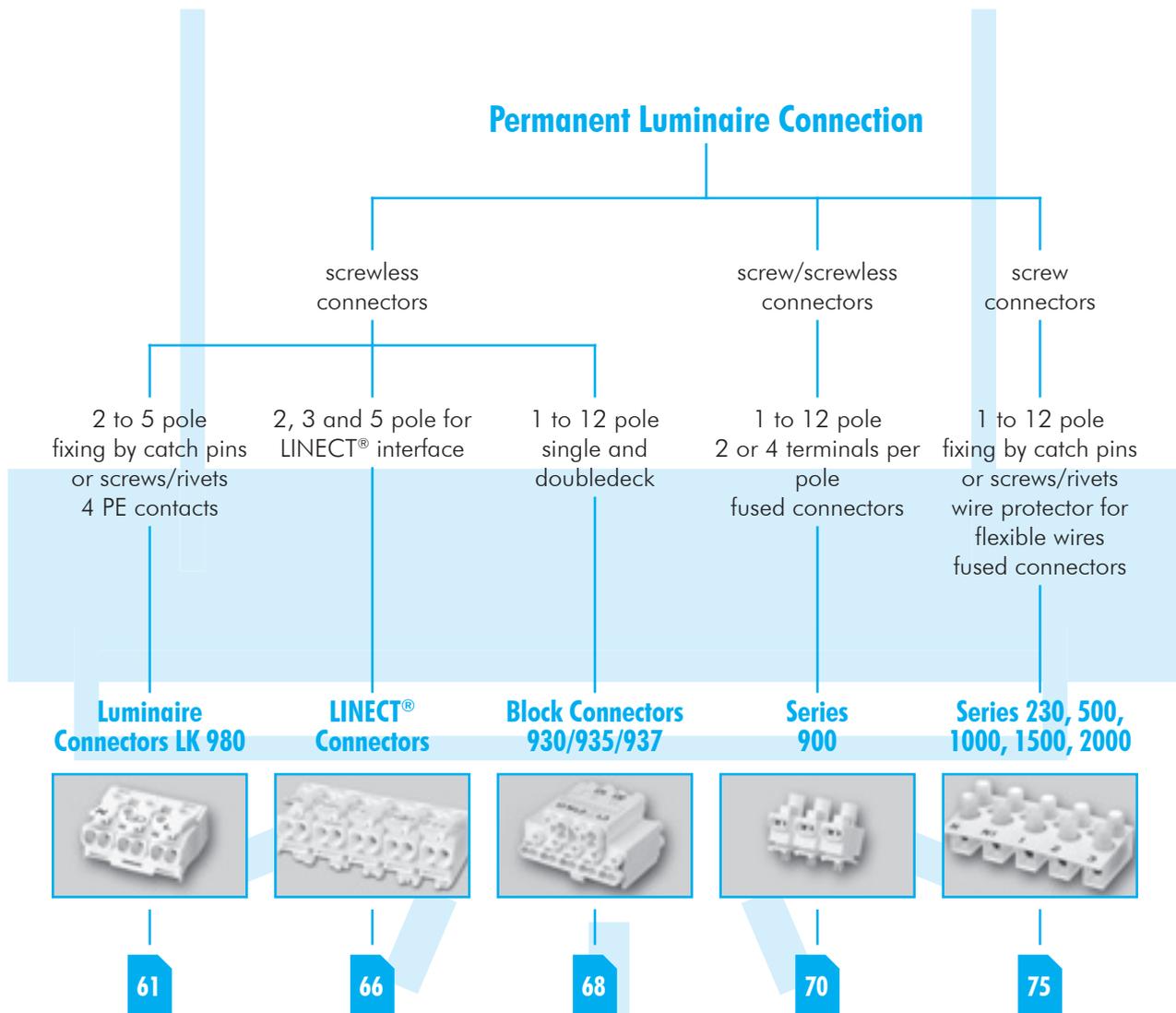
Pluggable Luminaire Connection





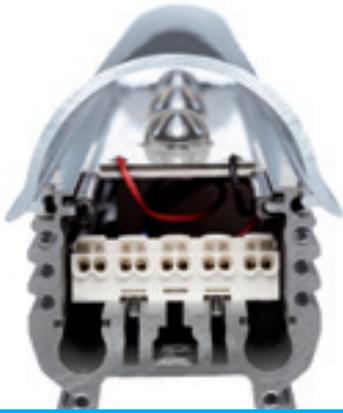
Applications

- shop lighting
- protection class II street lighting
- industrial luminaires
- high protection code water-proof luminaires
- object lighting with high ambient temperatures
- home lighting
- illuminated advertising
- enclosure and cabinet lamps
- ballasts





LED



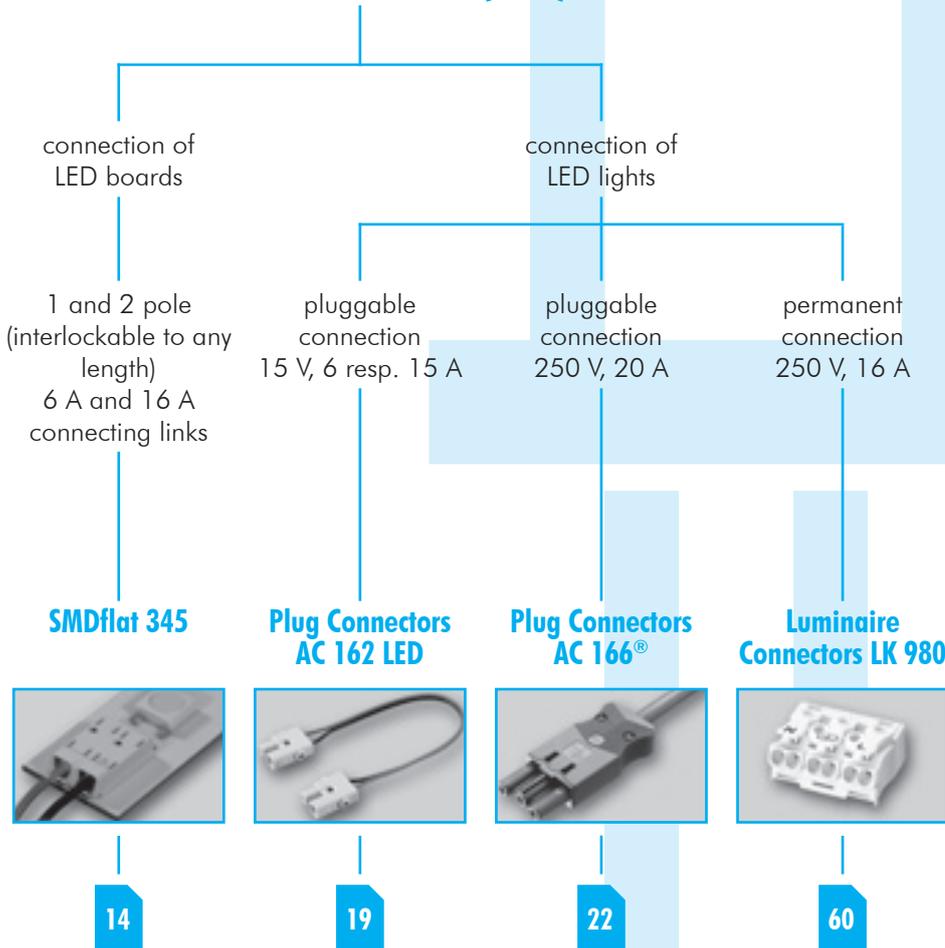
Our Solutions

LED is standard technology and our product range is in line with it: time and cost saving solutions for installation, a small but robust connection technology for LED boards and the well-proven products for the mains connection of LED lights.

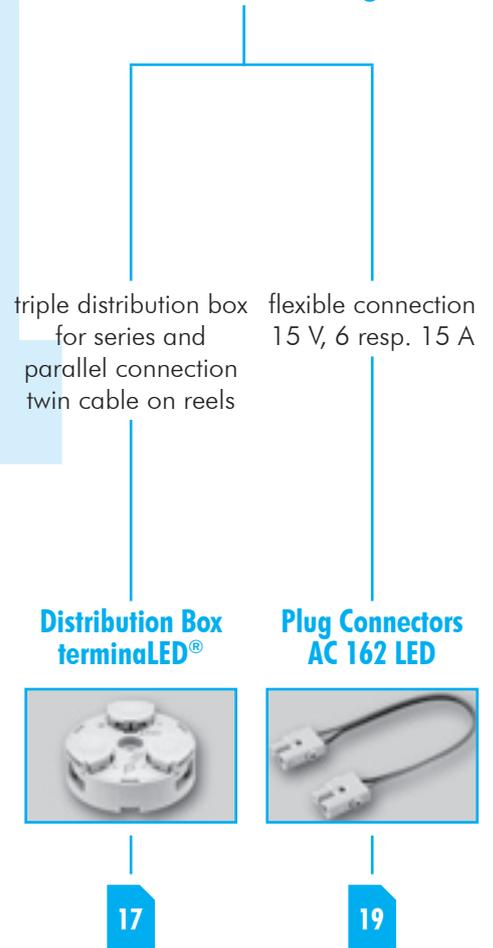
Applications

- lighting for furniture and displays
- exhibition stands
- street lighting
- emergency lighting
- shop lighting

Luminaire Connection (OEM)



Installation of LED Lights





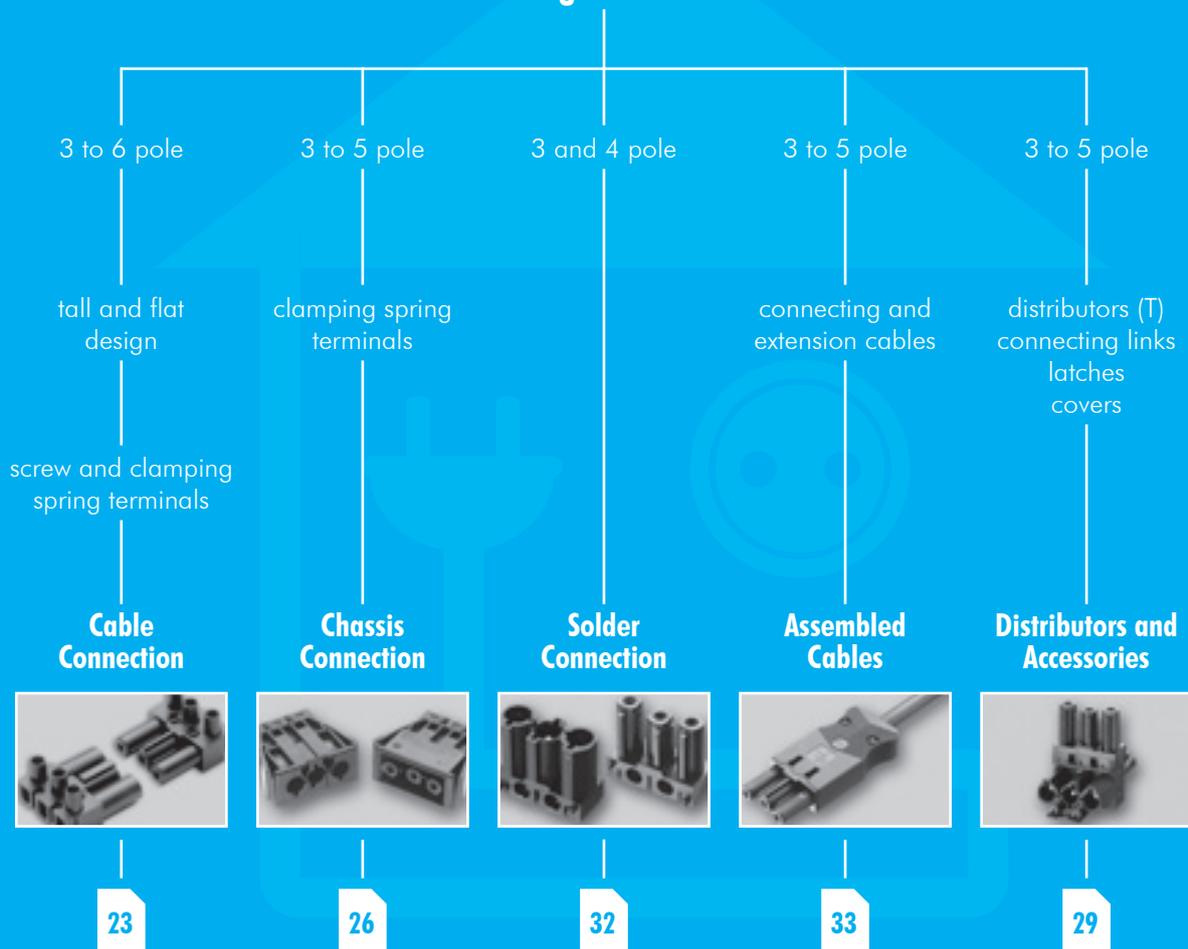
Our Solutions

We confront constantly increasing labour costs for installation with our AC 166® “plug & play” system: Laborious cutting to length, stripping and connecting as well as time consuming re-working are things of the past. Safe plug and socket connectors reduce failure rate to a minimum. Especially for pre-assembled cables Adels-Contact offers a quick delivery program.

Applications

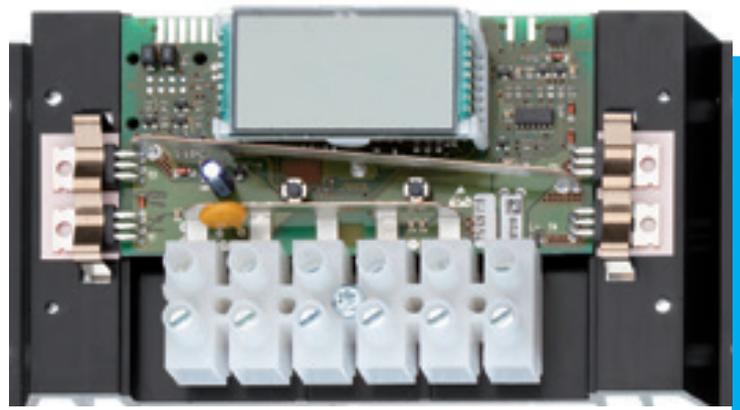
- office buildings
- exhibition stands
- industrial buildings
- car dealerships
- retail/wholesale shops, shopping centres

Installation Plug Connectors AC 166®





Electrical Appliances



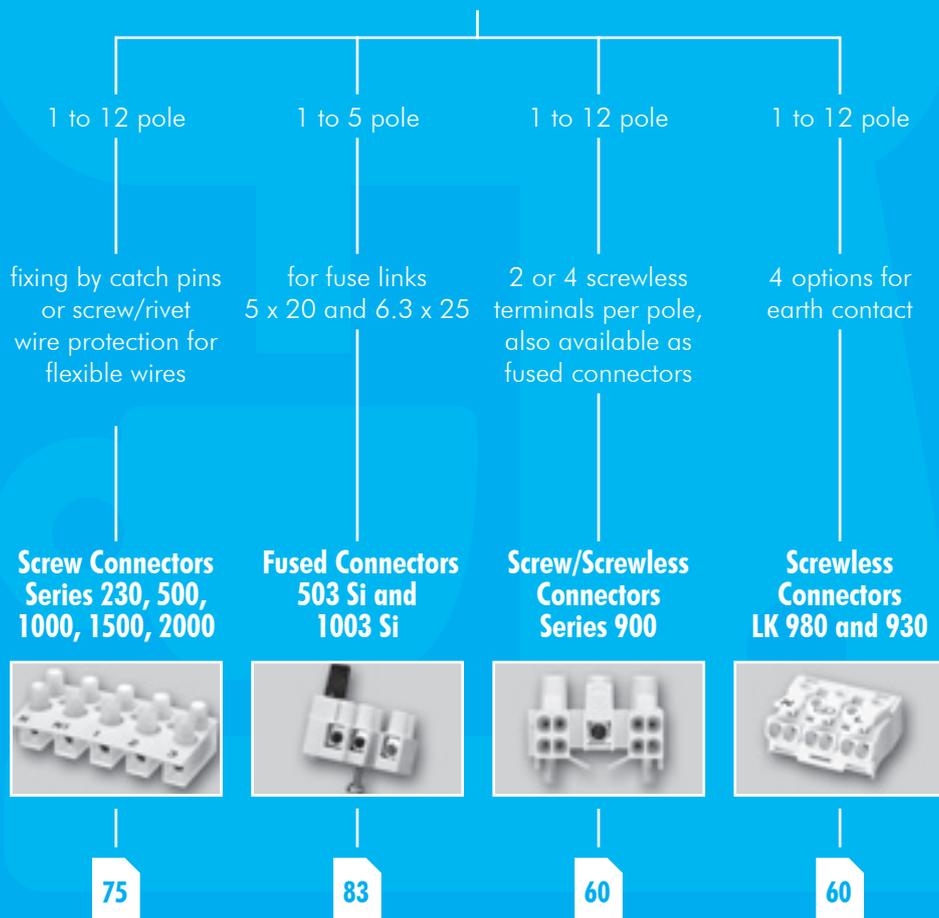
Our Solutions

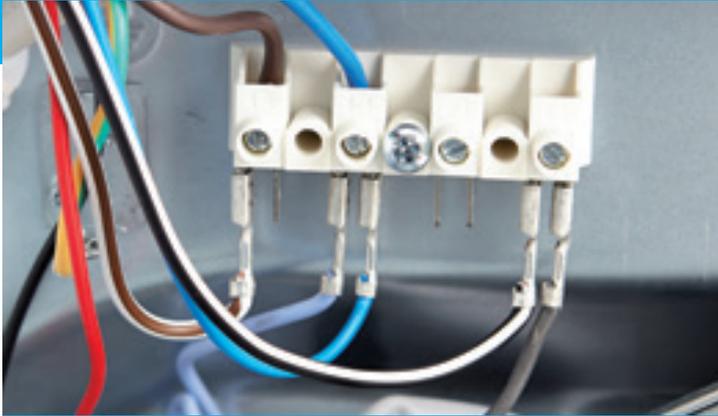
Connection of electrical appliances is still dominated by screw connectors. However, connectors in which conductors are pushed in as well as connections made by plug and socket connectors have become more and more accepted. Here, Adels-Contact offers a wide range of solutions. In addition to that we

supply special solutions such as time-proven fused connectors to protect sensitive and/or valuable electrical appliances or the use of a particular polyamide "GW" to comply with the more stringent demands the standard for household appliances EN 60335-1 makes on the glow wire test.

Permanent Appliance Connection

(also in conformity with EN 60335-1 glow wire test)



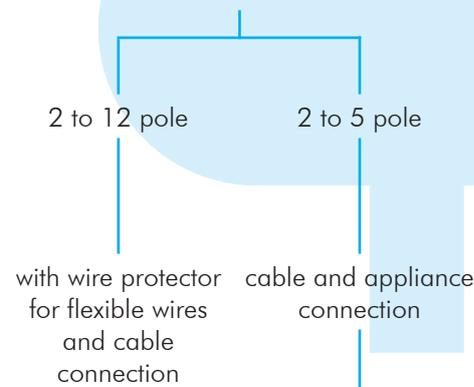


Applications

- small electrical household appliances
- large appliances, white goods
- ventilators
- heating/air condition devices
- pumps
- vending machines
- electric tools

Pluggable Appliance Connection

(also in conformity with EN 60335-1 glow wire test)



Plug and Socket Connectors 160/163



70

Plug Connectors AC 166®



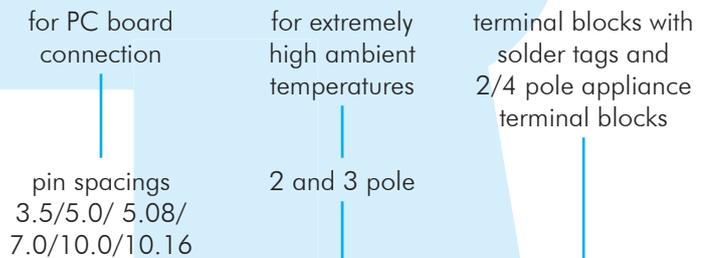
22

PCB and Pluggable PCB Connectors



95

Special Solutions



Porcelain and Steatite Connectors



109

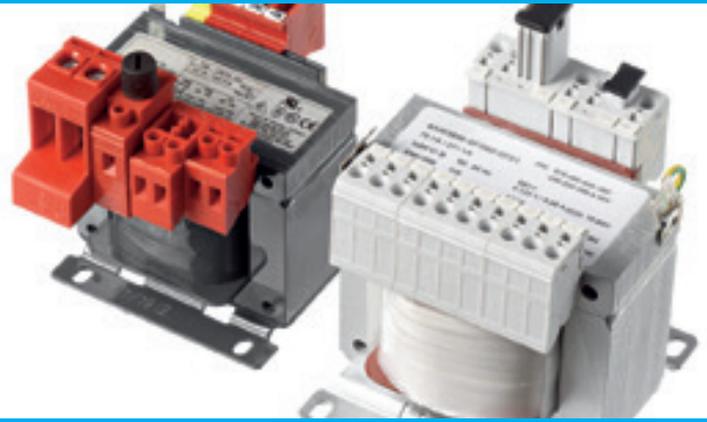
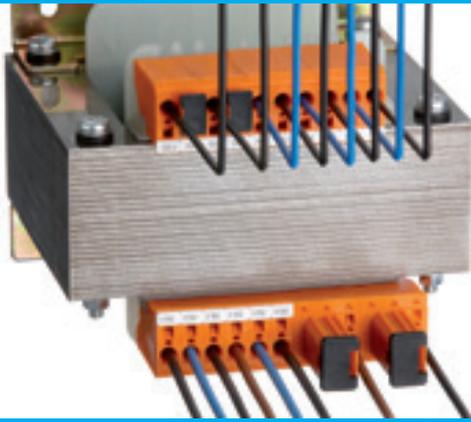
Special Connectors 160 LF and 815



112



Transformers

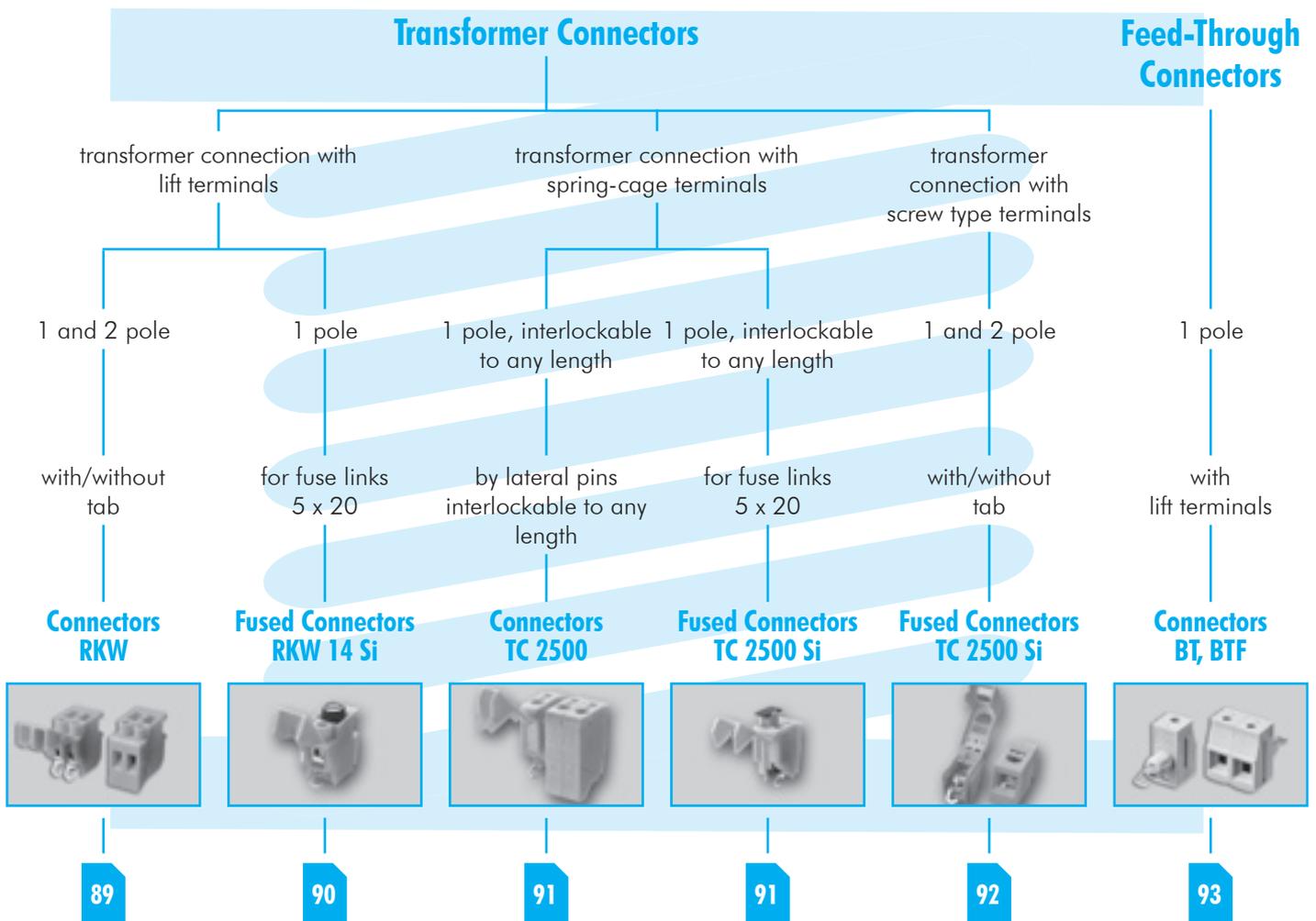


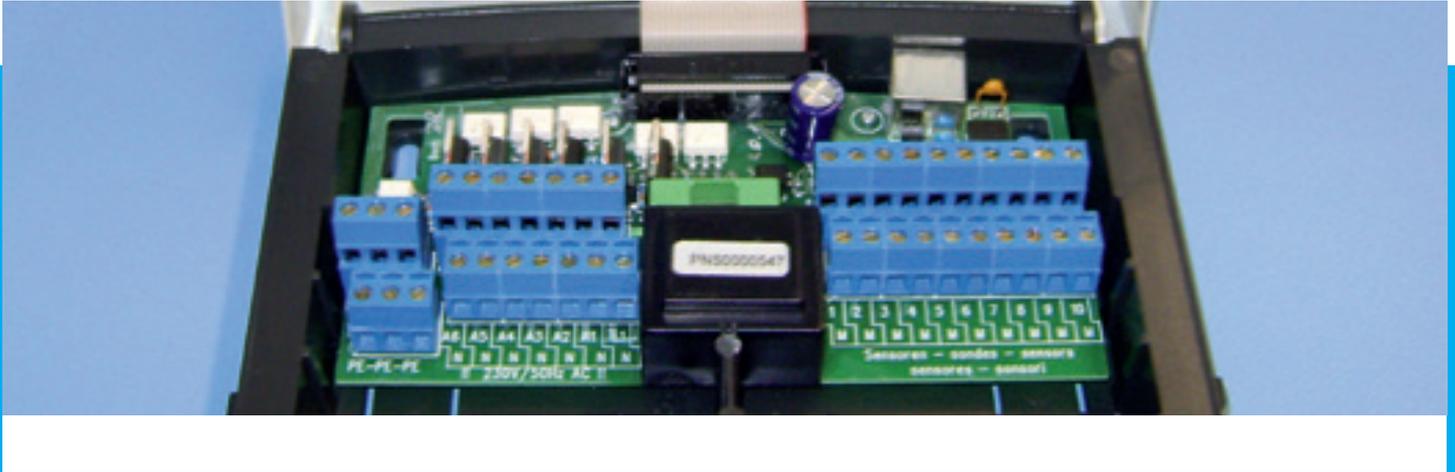
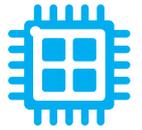
Our Solutions

Since 1973, when the first transformer connector type RKW 2 had been developed, Adels-Contact has been specialist in producing connectors for snap-in fixing to the winding frames. The result of continuing innovation and new developments is a wide range of connection technology in that special field.

Applications

– winding frames and mounting rails for control/small transformers





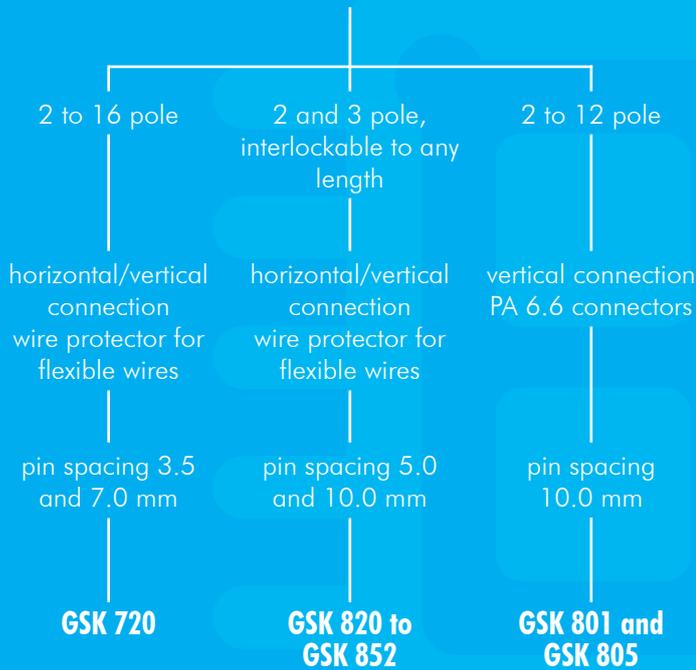
Our Solutions

Within the field of (pluggable) connectors for printed circuit boards, Adels-Contact focuses on applications where particular precision and lifetime stability is required. That is why the connectors currently in supply are manufactured almost exclusively from polybutyleneterephthalate (PBT) which guarantees pinpoint accuracy in spacing. This is of particular importance with longer pole lengths.

Applications

- industrial electronics
- telecommunication electronics
- measurement and control technology
- drive technology
- alarm systems
- intercom systems

Permanent PCB Connection



96

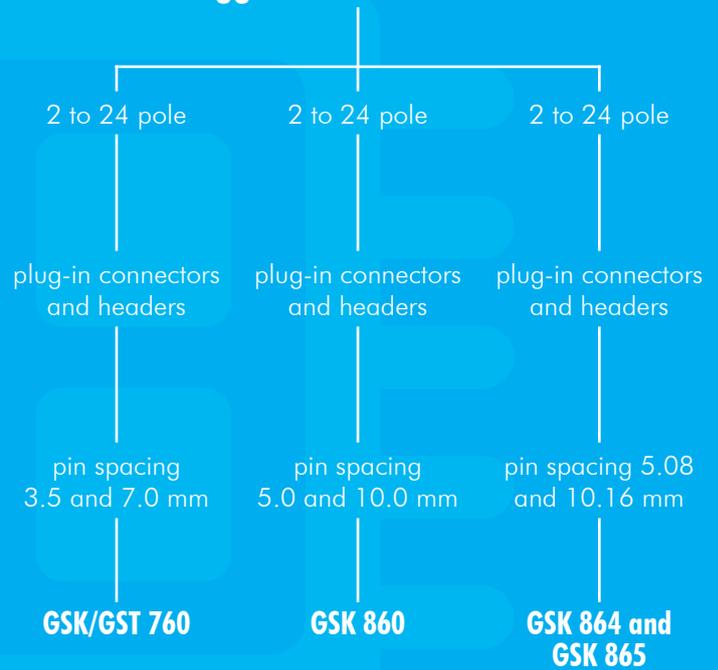


97



102

Pluggable PCB Connection



103

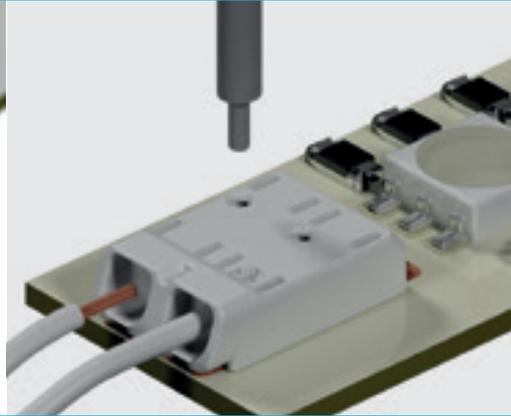
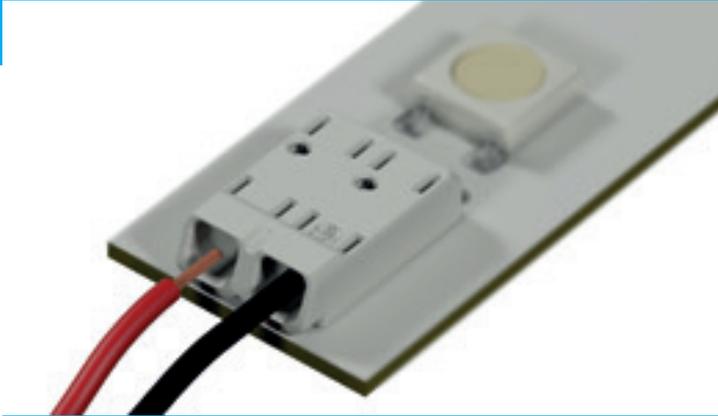


104



106

Special LED Products



SMDflat 345 Technical Information

Applicable Standards

EN 60947-7-4
 low-voltage switchgear and controlgear part 7-4:
 ancillary equipment – PCB terminal blocks for copper conductors
 EN 60598
 luminaires – general requirements and testing

Current Rating and Limit Temperature

6 A at T 105 °C
 max. 150 °C

Voltage Rating

1 pole: 600 V to EN 60598-1
 2 pole: 320 V to EN 60598-1

Plastic Material

connectors SMDflat 345:
 PPA-GF, white
 flammability rating to UL 94: V-0
 continuous working temperature 150 °C, Short-time 200 °C
 connecting links SMDflat 345:
 PA, white
 flammability rating to UL 94: V-2
 continuous working temperature 100 °C, short-time 160 °C

Metal

connectors SMDflat 345:
 copper, plated and spring steel
 connecting links SMDflat 345:
 copper, plated

Protection Code

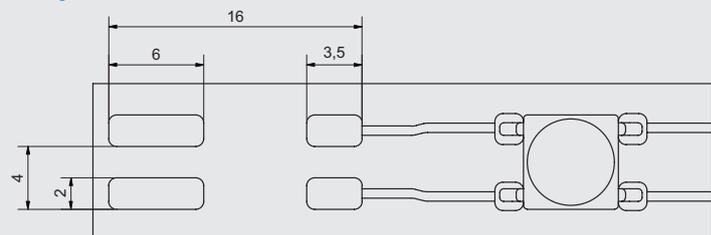
IP 00

Important Approvals

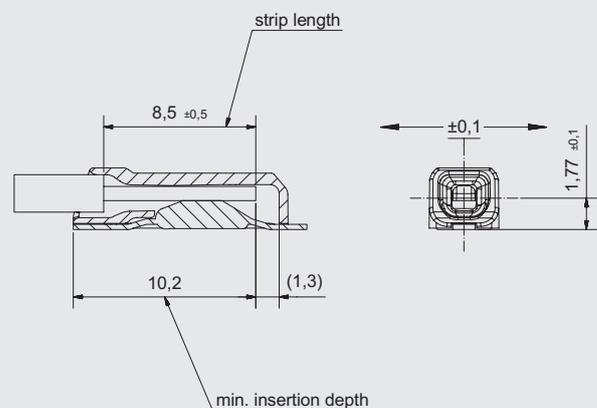
For current approvals, please see the relative data sheets of each item on our website.

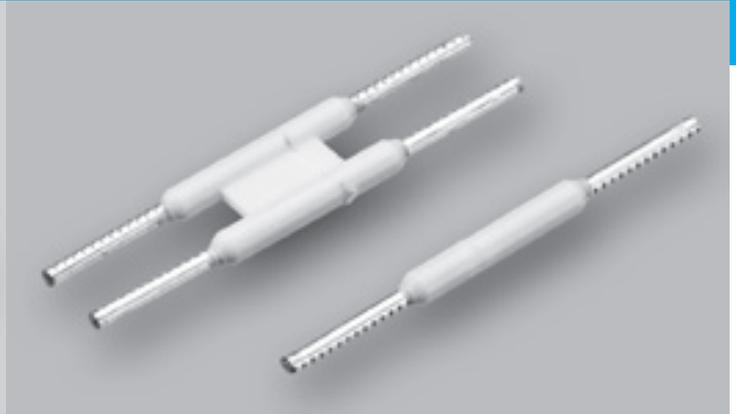
Approvals	Nominal Cross Section	Voltage Rating
	0.2 – 0.75 mm ²	320 – 600 V
	24 – 18 AWG	320 – 600 V

Footprint



Tolerances for Robot-Teach-In





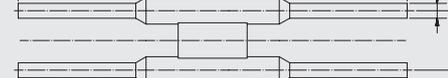
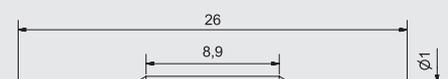
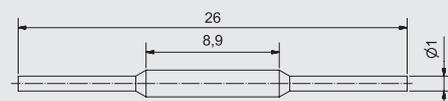
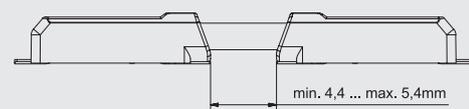
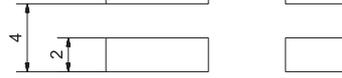
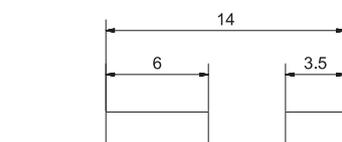
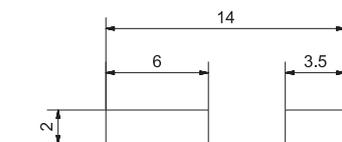
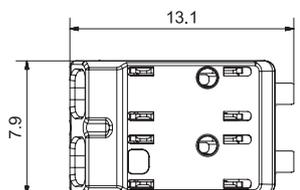
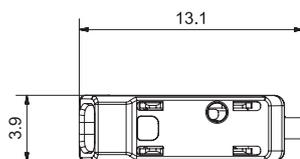
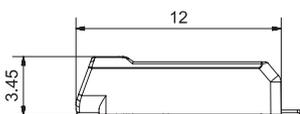
SMDflat 345 Pin Spacing 4,0 mm

SMDflat 345 Connecting Links

Connection: clamping spring contacts
 conductor size 0.2 - 0.75 mm² solid or flexible
Fixing: SMD
Lower limit temperature: -40 °C
Upper limit temperature: 150 °C
Stripping length: 8 - 9 mm
Packaging: "Tape & Reel" with 13" reel
Important approvals: UL 1059
 IEC/EN 60947-7-4
 EN 60598-1

Lower limit temperature: -30 °C
Upper limit temperature: 105 °C
Packaging: PE-bag

Description	Item	Order Number	PU	Description	Item	Order Number	PU
1 pole	SMDflat 345/1	351101	2000	1 pole	SMDflat 345 KU/ 1	351151	1500
2 pole	SMDflat 345/2	351102	1500	2 pole	SMDflat 345 KU/ 2	351152	500



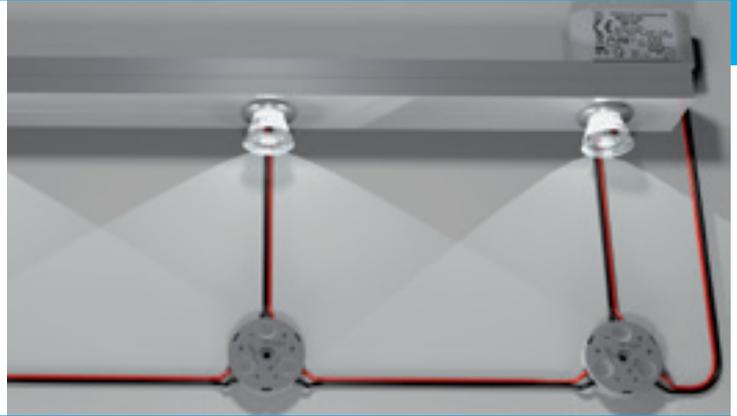
SMDflat 345



SMDflat 345 Tool

Description	Item	Order Number	PU
Release tool	SMDflat WKZ	351199	1

Special LED Products



Cable + terminalLED® = Quick Installation of LED Spots

Current Rating

6 A (0.5 mm²) resp. 5 A (0.34 mm²) / 150 V at T 60 °C

Plastic Material

polyamide 6/6, light grey and dark grey
 flammability rating to UL 94: V-2
 continuous working temperature 100 °C, Short-time temperature 160 °C

Metal

bronze, plated

Cables

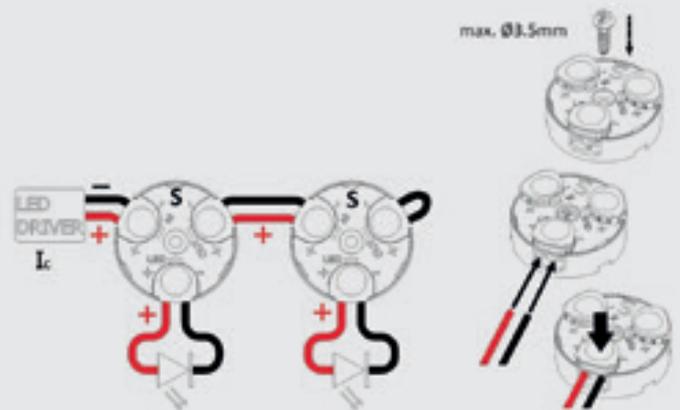
XYFAZ 2 x 0.5 mm², flexible
 twin cable red/black

Protection Code

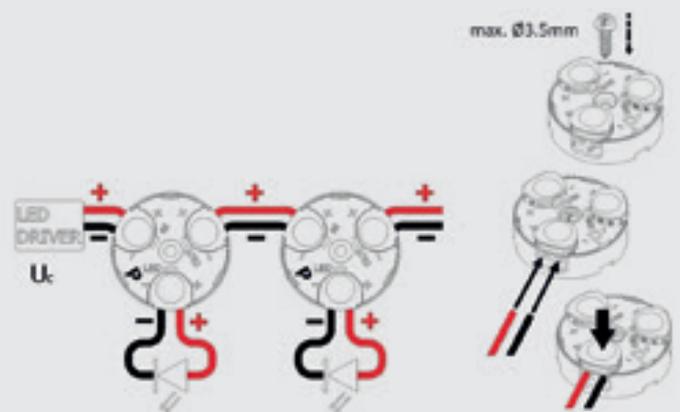
IP 20
 IP 40 – when connected

Installation

terminalLED® S for Series Connection



terminalLED® P for Parallel Connection



Here is our application video:





LED Distribution Box terminaLED® S

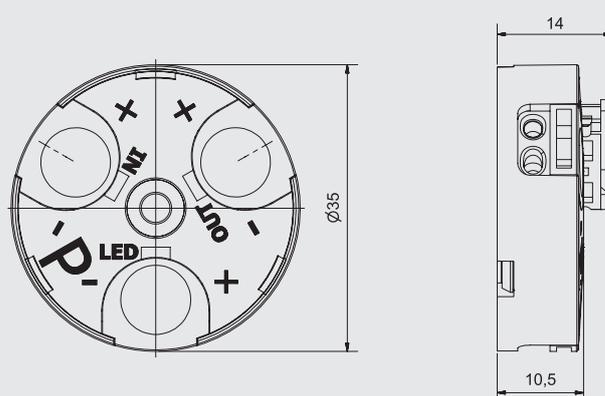
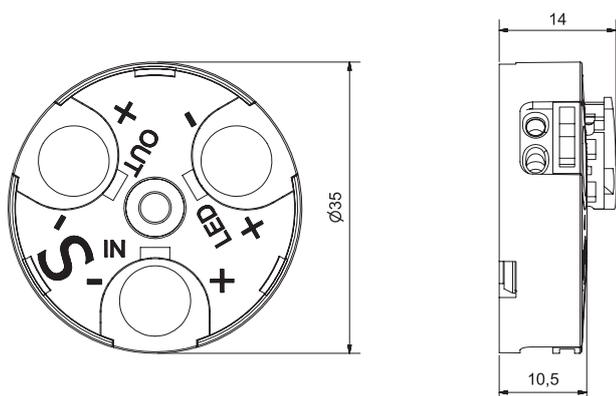
Connection: IDC (insulation displacement connector)
3 x 2 clamping units 0.34 – 0.5 mm²
(IN, LED, OUT)
Fixing: centrally by screw M3,5 or with a glued rear side

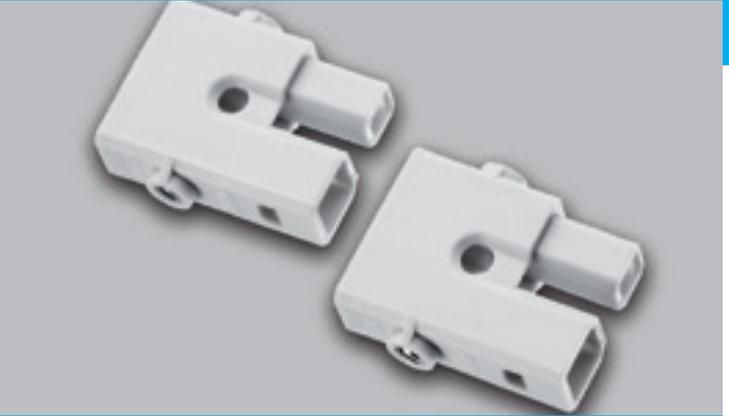


LED Distribution Box terminaLED® P

Connection: IDC (insulation displacement connector)
3 x 2 clamping units 0.34 – 0.5 mm²
(IN, LED, OUT)
Fixing: centrally by screw M3,5 or with a glued rear side

Description	Item	Order Number	PU	Description	Item	Order Number	PU
LED distribution box	terminaLED® S 3050	601103	50	LED distribution box	terminaLED® P 3050	605103	50
Cables 50 meters	XYFAZ 2 x 0,5 50	609950	1	Cables 50 meters	XYFAZ 2 x 0,5 50	609950	1
Cable 100 metres	XYFAZ 2 x 0,5 100	6099X0	1	Cable 100 metres	XYFAZ 2 x 0,5 100	6099X0	1





AC 162 LED Technical Information

Plugs and Sockets LED

Current Rating and Limit Temperature

plugs and sockets: 15 A/150 V at T 70 °C
distributing blocks and cables: 3 A /150 V at T 70 °C

Plastic Material

polyamide 6/6, grey
flammability rating to UL 94: V-2
continuous working temperature 100 °C, Short-time 160 °C

Metal

contacts: brass, tinned
clamping screws: steel, zinc plated, chromed

Cables

XYFAZ 2 x 0.5 mm², flexible
twin cable red/black
wire ends sealed

Protection Code

IP 20

Important Approvals

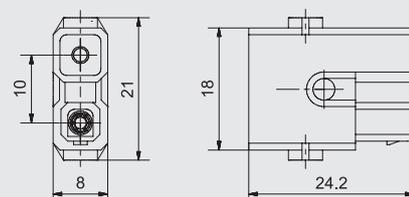
Dekra-certified

Connection: screw
conductor size 0.5 - 2.5 mm²
Stripping length: 7 mm



Here is our application video:

Description	Item	Order Number	PU
Plugs and sockets	AC 162 STS/2 LED grey	145102	200



AC 162 LED



Distributing blocks LED

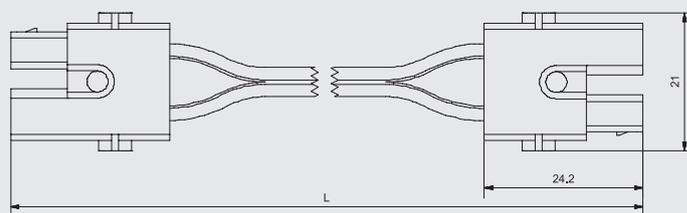
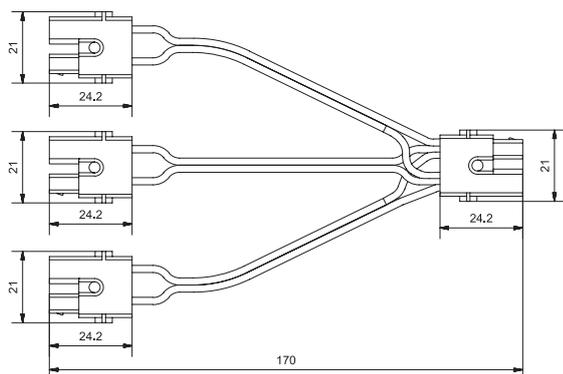
Upon request: different cable lengths, different no. of output terminals

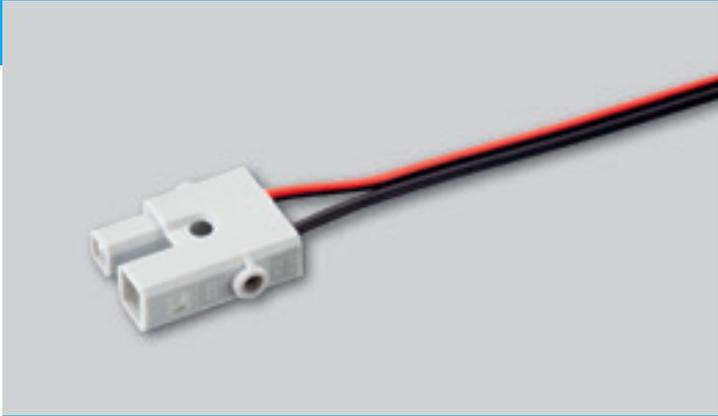


Extension Cables LED

Upon request: different cable lengths

Description	Item	Order Number	PU	Description	Item	Order Number	PU
0.17 metres	AC 162 VT/3-1 LED	149902A5	200	1.20 metres	AC 162 VLS LED 120 grey	14830212	50

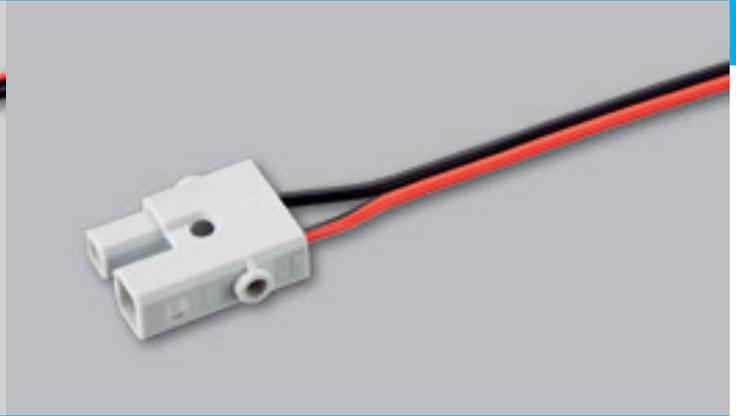




Connecting Cables LED Type I

Stripping length: 7 mm

Upon request: different cable lengths, different stripping lengths

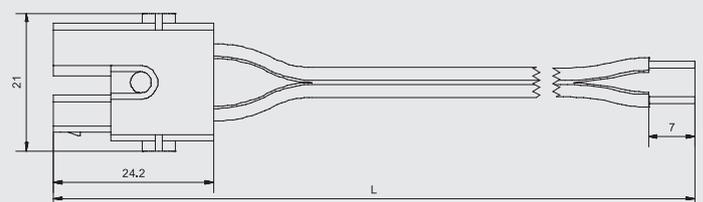
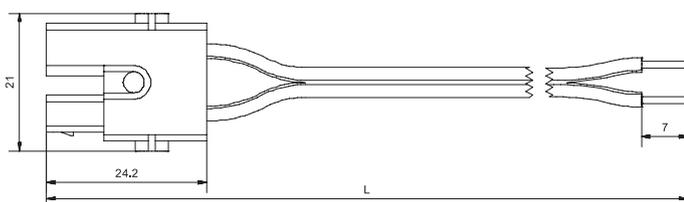


Connecting Cables LED Type II

Stripping length: 7 mm

Upon request: different cable lengths, different stripping lengths

Description	Item	Order Number	PU	Description	Item	Order Number	PU
0.35 metres	AC 162 ALS LED type I 035 grey	14330203	50	0.35 metres	AC 162 ALS LED type II 035 grey	14430203	50
1.20 metres	AC 162 ALS LED type I 120 grey	14330212	50	1.20 metres	AC 162 ALS LED type II 120 grey	14430212	50



Installation Plug Connectors AC 166®



Technical Information

AC 166® G and AC 166® Classic

The AC 166® G series is the succeeding model to the prior system AC 166® Classic. The AC 166® G series complies with the more rigid requirements of the EN 60320 and EN 61535 standards with regard to protection against electric shock from the mains connection of the socket.

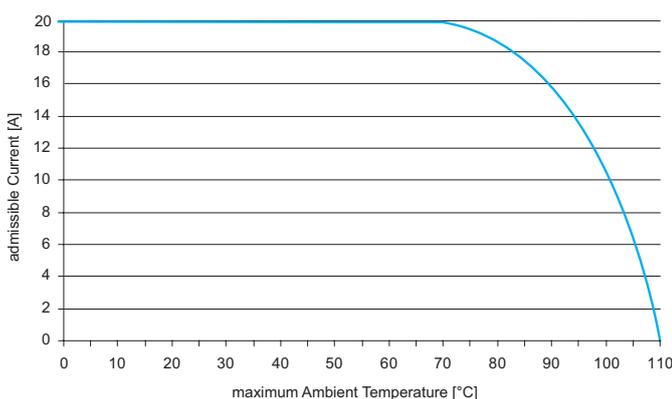
Applicable Standards

EN 60320
appliance couplers for household and similar general purposes
EN 61984
connectors – safety requirements and tests
EN 61535
installation couplers intended for permanent connection in fixed installations
EN 60598
luminaires – general requirements and testing

Current Rating and Limit Temperature

20 A/250 V/400 V at T 70 °C
max: 110 °C

Derating Curve



Plastic Material

polyamide 6/6
flammability rating to UL 94: V-2
continuous working temperature 100 °C, short-time temperature 160 °C

Metal

contacts: brass, plated
clamping screws: steel, zinc plated, chromed
clamping springs: spring steel



Here is our application video:

Cables

H05VV-F (PVC) and H05Z1Z1-F (halogen-free)
continuous working temperature 70 °C
voltage rating: 300 V/500 V, surge voltage 4 kV
wire ends sealed
specifications for different cables (H07RN-F, H05V2V2-F, SiHSi, ...) upon request

Protection Code

IP 20
IP 40 – when plugged-in

Important Approvals

For current approvals, please see the relative data sheets of each item on our website.

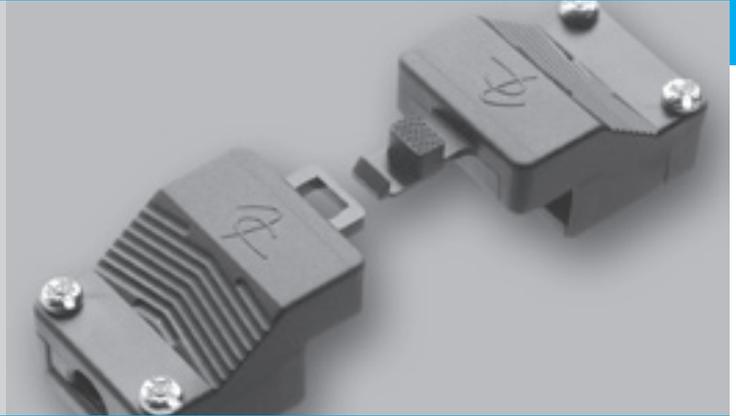
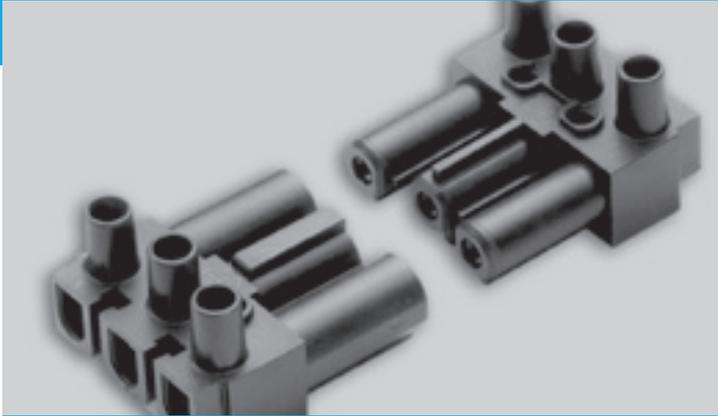
Approvals	Nominal Cross Section	Voltage Rating
	1.5/2.5 mm ²	250 V
	2.5 mm ²	250 V
	14 AWG	600 V

Protection against Incorrect Plugging

All items of the AC 166® G series are fully protected against incorrect plugging, f.i.
– plugging rotated by 180°
– one pole plugging
– plugging of different nos. of poles
– plugging shifted aside

Installation Notes

According to EN 61535 installation plug connectors are intended to be connected and disconnected without load only. When used in easily accessible areas it is stipulated to use locking pins that may be removed by auxiliary tool only. According to EN 61535 installation plug connectors have to be provided with latches. Compliance with the EN 61535 standard does not guarantee hazard avoiding non-interchangeability with connecting systems of various manufacturers. Separate documentation available with regard to mixed use with installation plug connector systems made by other manufacturers (upon request). Current rating depends on the cross sections to be connected resp. on dimensions of strip conductors. The connecting system is not a substitute for a national plug-socket system for domestic use.



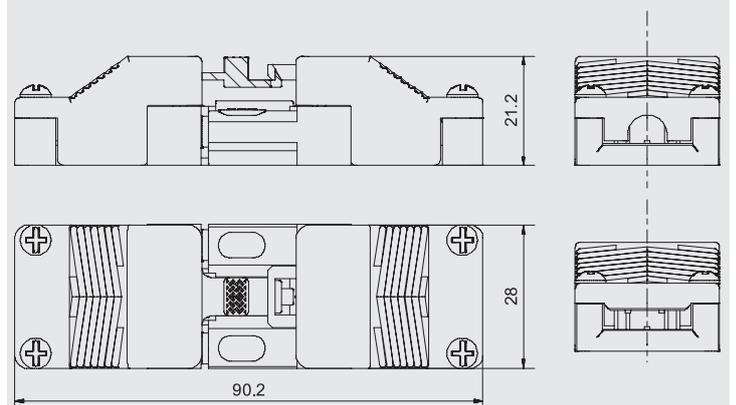
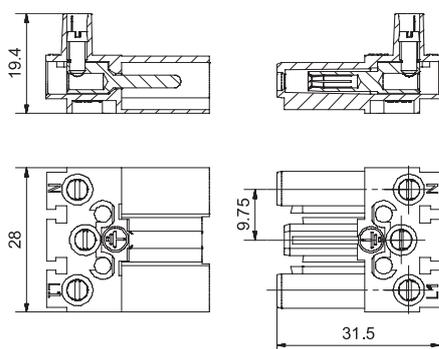
Plugs and Sockets

Connection: screw
 conductor size 0.5 - 2.5 mm²
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 7 mm
Important approvals: VDE, KEMA, UL
Accessories: strain reliefs (page 23, 44), connecting links, protective caps (page 31), latches, locking pins (page 53)
Upon request: with strain relief assembled

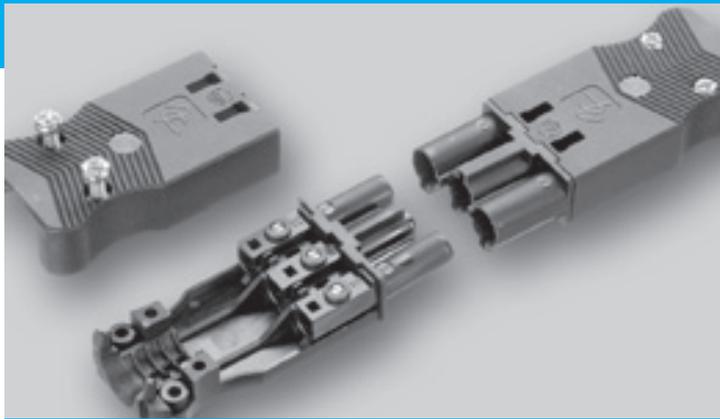
Strain Reliefs

Connection: cable outlet
 type "R": round conductor Ø 6.5 - 8.3 mm
 type "F": 2 round conductors up to Ø 4.5 mm
 type "F": flat conductor up to 4.5 mm
Torque screw: C2.9: ⌀ max. 0.5 Nm
Dismantling length: 33 mm (PE), 26 mm (L N)

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Plugs				Type "R"			
Coding 1 (L PE N)	AC 166 GST/ 3 white	162053	200	without interlocking	AC 166-1/ 3 ZEL R white	166053	200
	AC 166 GST/ 3 black	162063	200		AC 166-1/ 3 ZEL R black	166063	200
Coding 2 (L PE N)	AC 166 GST/ 3 pebble grey	162003	200	with hook for plugs	AC 166-1/ 3 ZEL RH white	166053H	200
Coding 5 (1 2 3) DALI	AC 166 GST/ 3 pastel blue	162043	200		AC 166-1/ 3 ZEL RH black	166063H	200
Sockets				with eye for sockets			
Coding 1 (N PE L)	AC 166 GBU/ 3 white	165053	200		AC 166-1/ 3 ZEL RO white	1660530	200
	AC 166 GBU/ 3 black	165063	200		AC 166-1/ 3 ZEL RO black	1660630	200
Coding 2 (N PE L)	AC 166 GBU/ 3 pebble grey	165003	200	for latches	AC 166-1/ 3 ZEL RV white	166053V	200
Coding 4 (3 2 1)	AC 166 GBU/ 3 brown	165093	200		AC 166-1/ 3 ZEL RV black	166063V	200
Coding 5 (3 2 1) DALI	AC 166 GBU/ 3 pastel blue	165043	200	Type "F"			
				without interlocking	AC 166-1/ 3 ZEL F white	166153	200
					AC 166-1/ 3 ZEL F black	166163	200
				with hook for plugs	AC 166-1/ 3 ZEL FH white	166153H	200
					AC 166-1/ 3 ZEL FH black	166163H	200
				with eye for sockets	AC 166-1/ 3 ZEL FO white	1661530	200
					AC 166-1/ 3 ZEL FO black	1661630	200
				for latches	AC 166-1/ 3 ZEL FV white	166153V	200
					AC 166-1/ 3 ZEL FV black	166163V	200

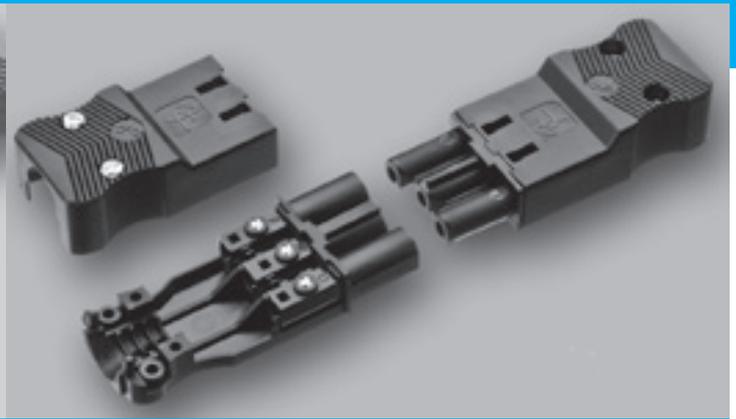


AC 166[®] G 3 pole



Plugs and Sockets, flat

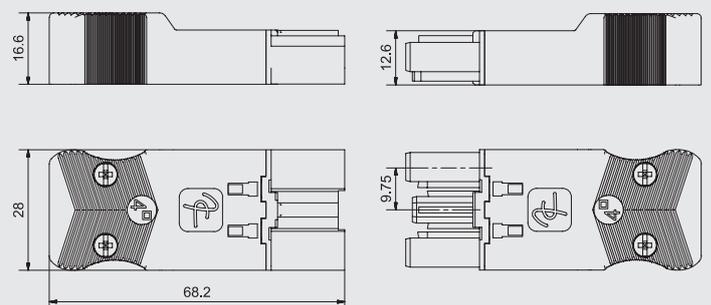
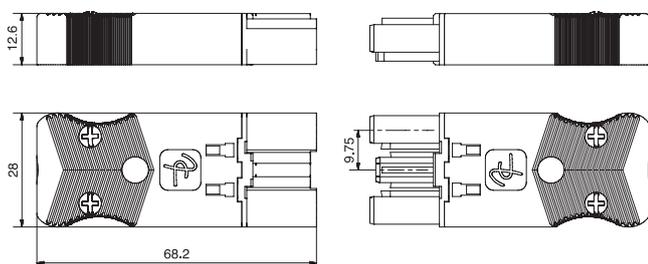
Connection: screw
 conductor size 0.5 - 2.5 mm²
 cable outlet
 3 x 1.5 mm²: Ø 7.5 - 8.5 mm
 3 x 2.5 mm²: Ø 9.5 - 10.5 mm
Torque screw: M3: ⤵ max. 0.3 Nm (conductor)
 C2.9: ⤵ max. 0.5 Nm (strain relief)
Stripping length: 7 mm
Dismantling length: 39 mm (PE), 32 mm (L N)
Important approvals: VDE, KEMA, UL
Accessories: protective caps, connecting links (page 31), latches, locking pins (page 53), distributing blocks (page 29, 30)
Upon request: connectors for 0.5 mm², 0.75 mm² and 1.0 mm², different polyamides (in particular glow wire to EN 60335-1), different housing screws



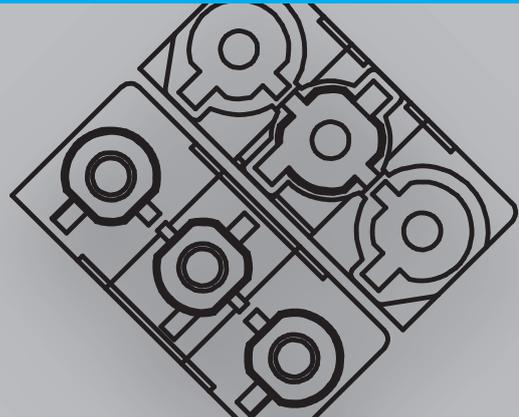
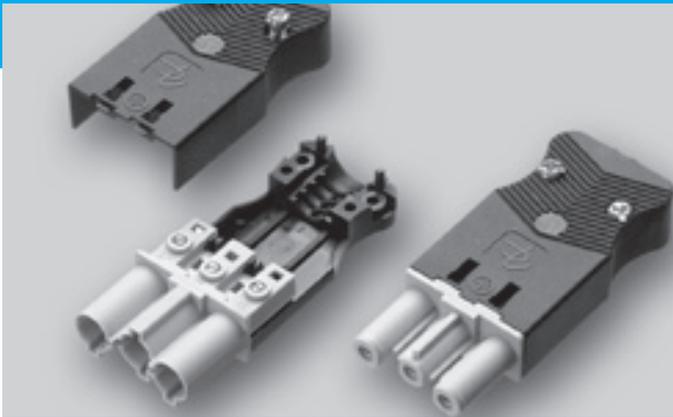
Plugs and Sockets, flat

Connection: screw
 conductor size 4.0 mm²
 cable outlet
 3 x 4 mm²: Ø 10.5 - 12.0 mm
Torque screw: M3: ⤵ max. 0.3 Nm (conductor)
 C2.9: ⤵ max. 0.5 Nm (strain relief)
Stripping length: 7 mm
Dismantling length: 39 mm (PE), 32 mm (L N)
Accessories: protective caps, connecting links (page 31), latches, locking pins (page 53), distributing blocks (page 29, 30)
Upon request: different housing screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Plugs, Connection 1.5 mm²				Plugs, Connection 4.0 mm²			
Coding 1 (L PE N)	AC 166 GSTF/ 315 white	162453	200	Coding 1 (L PE N)	AC 166 GSTF/ 340 white	162853	200
	AC 166 GSTF/ 315 black	162463	200		AC 166 GSTF/ 340 black	162863	200
Plugs, Connection 2.5 mm²				Sockets, Connection 4.0 mm²			
Coding 1 (L PE N)	AC 166 GSTF/ 325 white	162653	200	Coding 1 (N PE L)	AC 166 GBUF/ 340 white	165853	200
	AC 166 GSTF/ 325 black	162663	200		AC 166 GBUF/ 340 black	165863	200
Sockets, Connection 1.5 mm²							
Coding 1 (N PE L)	AC 166 GBUF/ 315 white	165453	200				
	AC 166 GBUF/ 315 black	165463	200				
Sockets, Connection 2.5 mm²							
Coding 1 (N PE L)	AC 166 GBUF/ 325 white	165653	200				
	AC 166 GBUF/ 325 black	165663	200				



AC 166® G 3 pole



Special Codings Plugs and Sockets

Coding Overview

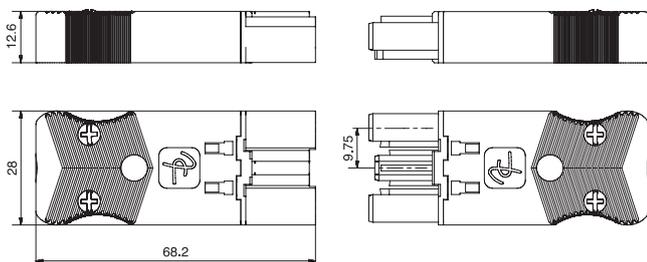
Connection: screw
 conductor size 0.5 - 2.5 mm²
 cable outlet
 3 x 1.5 mm²: Ø 7.5 - 8.5 mm
 3 x 2.5 mm²: Ø 9.5 - 10.5 mm
Torque screw: M3: ⤵ max. 0.3 Nm (conductor)
 C2.9: ⤵ max. 0.5 Nm (strain relief)
Stripping length: 7 mm
Dismantling length: 39 mm (PE), 32 mm (L N), 32 mm (without PE)
Important approvals: VDE
Accessories: latches, locking pins (page 53)
Upon request: connectors for 0.5 mm², 0.75 mm², 1.0 mm², 2.5 mm² and 4.0 mm², strain relief white or light red, printed with "5 kV", different housing screws



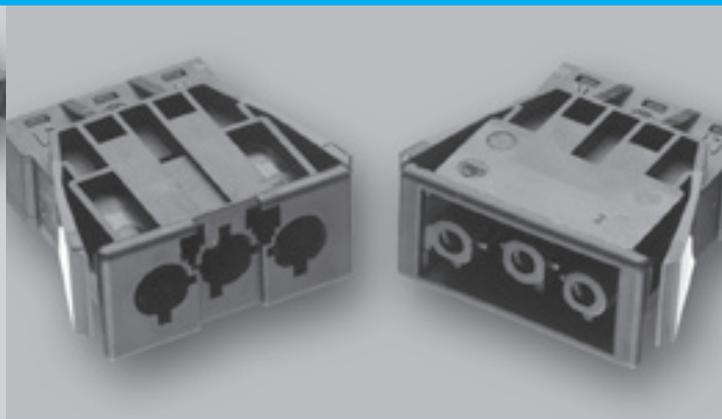
Description	Item	Order Number	PU	Coding Nr.	Colours	with PE	Main application
Plugs with black Strain Relief for 3 x 1.5 mm²				1	black/white/coral red*	yes	circuit
Coding 1 (L PE N)	AC 166 GSTF/ 315 coral red	162463X	200	2	pebble grey	yes	circuit
Coding 2 (L PE N)	AC 166 GSTF/ 315 pebble grey	162463K	200	3	light red	yes	ignition cables
Coding 3 (L PE N)	AC 166 GSTF/ 315 light red	162463R	200	4	brown	no	control cables
Coding 4 (1 2 3)	AC 166 GSTF/ 315 brown	162463B	200	5	pastel blue	no	dimmer output (DALI)
Coding 5 (1 2 3) DALI	AC 166 GSTF/ 315 pastel blue	162463P	200	6	green	yes	circuit
Coding 6 (L PE N)	AC 166 GSTF/ 315 green	162463G	200	7	dark grey	no	protection class II
Coding 7 (L -- N)	AC 166 GSTF/ 315 dark grey	162463D	200	9	yellow	no	motion detector
Coding 9 (1 2 3)	AC 166 GSTF/ 315 yellow	162463Y	200	* coral red upon request			

Sockets with black Strain Relief for 3 x 1.5 mm²			
Coding 1 (N PE L)	AC 166 GBUF/ 315 coral red	165463X	200
Coding 2 (N PE L)	AC 166 GBUF/ 315 pebble grey	165463K	200
Coding 3 (N PE L)	AC 166 GBUF/ 315 light red	165463R	200
Coding 4 (3 2 1)	AC 166 GBUF/ 315 brown	165463B	200
Coding 5 (3 2 1) DALI	AC 166 GBUF/ 315 pastel blue	165463P	200
Coding 6 (N PE L)	AC 166 GBUF/ 315 green	165463G	200
Coding 7 (N -- L)	AC 166 GBUF/ 315 dark grey	165463D	200
Coding 9 (3 2 1)	AC 166 GBUF/ 315 yellow	165463Y	200

	Coding 1	Coding 2	Coding 3	Coding 4
Plugs				
Sockets				
	Coding 5	Coding 6	Coding 7	Coding 9
Plugs				
Sockets				



AC 166[®] G 3 pole



Plugs and Sockets, flat

Connection: clamping spring contacts, 2 clamping units per pole
 conductor size 0.5 - 2.5 mm²
 solid or flexible, sealed
 conductor size 0.5 - 1.5 mm²
 flexible with ferrules
 cable outlet
 2 round conductors 3 x 1.5 mm²: Ø 7.5 - 8.5 mm
 2 round conductors 3 x 2.5 mm²: Ø 9.5 - 10.5 mm

Torque screw: M3: ⤴ max. 0.5 Nm (strain relief upper part)
 C2.9: ⤴ max. 0.5 Nm (strain relief bottom part)

Stripping length: 8 - 9 mm

Dismantling length: 42 mm (PE), 35 mm (L N)

Important approvals: VDE, UL

Accessories: latches, locking pins (page 53), connecting links (page 31), , distributing blocks (page 29, 30),

Upon request: printed with "5 kV", different housing screws

Built-in Plugs / Sockets 0.5 - 1.2 mm

Connection: clamping spring contacts, 2 clamping units per pole
 conductor size 0.5 - 2.5 mm²
 solid or flexible, sealed
 conductor size 0.5 - 1.5 mm²
 flexible with ferrules

Wall thickness housing: 0.5 - 1.2 mm

Stripping length: 8 - 9 mm

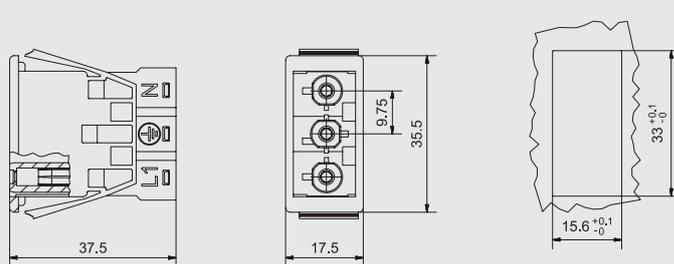
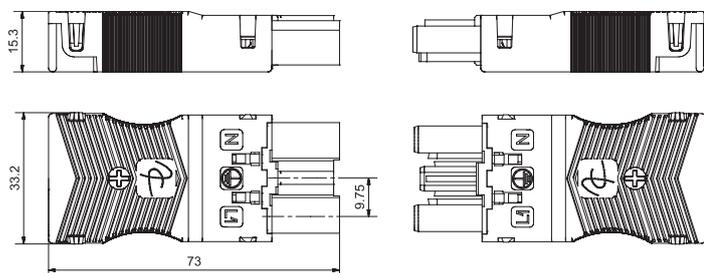
Important approvals: VDE, KEMA, UL

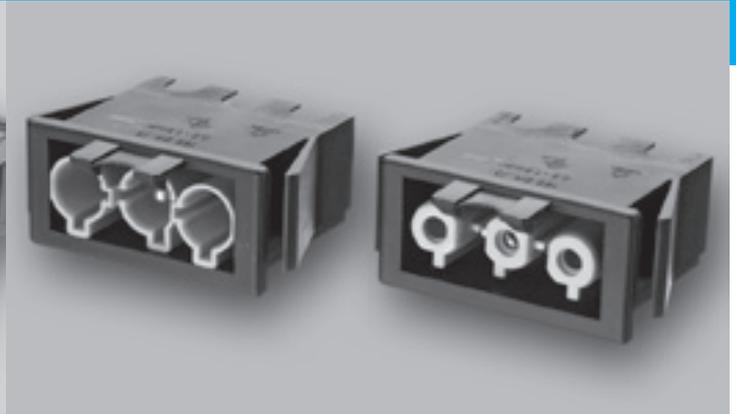
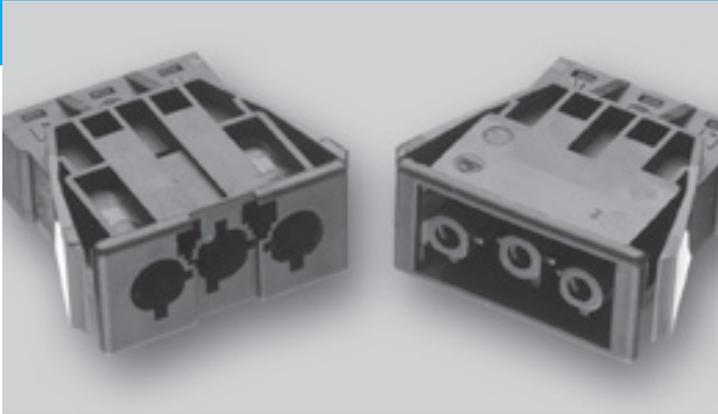
Accessories: protective caps, connecting links (page 31), latches, locking pins (page 53), distributing blocks (page 29)

Upon request: different polyamides (in particular glow wire to EN 60335-1), coding 3 light red

Description	Item	Order Number	PU
Plugs			
Coding 1 (L PE N)	AC 166 GSTPF/ 3 white	162553	200
	AC 166 GSTPF/ 3 black	162563	200
Coding 3 (L PE N)	AC 166 GSTPF/ 3 light red	162563R	200
Sockets			
Coding 1 (N PE L)	AC 166 GBUPF/ 3 white	165553	200
	AC 166 GBUPF/ 3 black	165563	200
Coding 3 (N PE L)	AC 166 GBUPF/ 3 light red	165563R	200

Description	Item	Order Number	PU
Plugs without Latches			
Coding 1 (L PE N)	AC 166 GEST/ 3 white	168753	200
	AC 166 GEST/ 3 black	168763	200
Plugs with Latches			
Coding 1 (L PE N)	AC 166 GEST/ 3 white with VSE	168753V	200
	AC 166 GEST/ 3 black with VSE	168763V	200
Sockets without Latches			
Coding 1 (N PE L)	AC 166 GEBU/ 3 white	168853	200
	AC 166 GEBU/ 3 black	168863	200
Sockets with Latches			
Coding 1 (N PE L)	AC 166 GEBU/ 3 white with VSE	168853V	200
	AC 166 GEBU/ 3 black with VSE	168863V	200
Latches, separately			
	AC 166 VSE white	169453	100
	AC 166 VSE black	169463	100





Built-in Plugs / Sockets 1.3 - 2.5 mm

Connection: clamping spring contacts, 2 clamping units per pole
 conductor size 0.5 - 2.5 mm²
 solid or flexible, sealed
 conductor size 0.5 - 1.5 mm²
 flexible with ferrules

Wall thickness housing: 1.3 - 2.5 mm
 Stripping length: 8 - 9 mm
 Important approvals: VDE, KEMA, UL
 Accessories: protective caps (page 31), latches (page 53),
 connecting links (page 31), locking pins (page 53),
 distributing blocks (page 29)

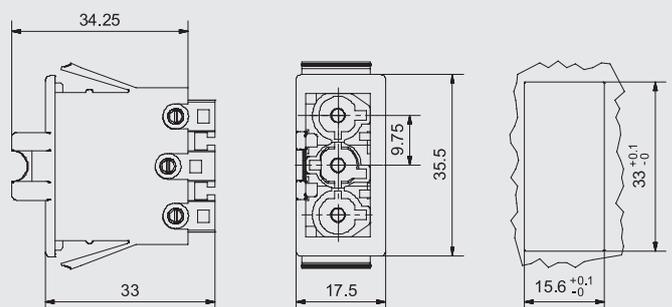
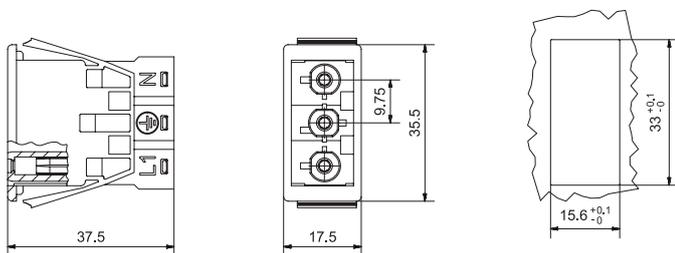
Upon request: light red, different polyamides (in particular glow wire
 to EN 60335-1)

Special Codings Metal Housings

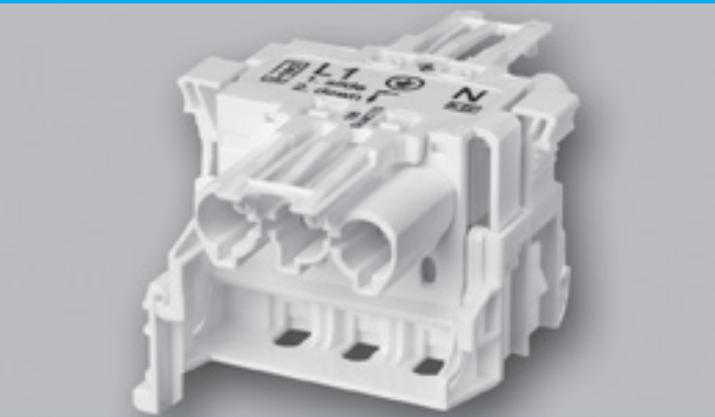
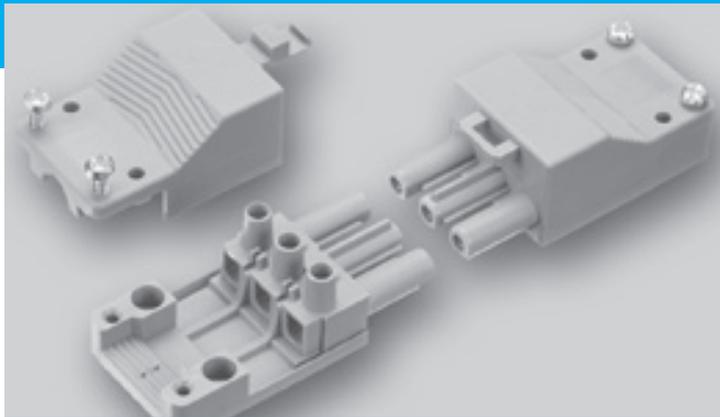
Connection: screw
 conductor size 0.5 - 2.5 mm²

Torque screw: M3: ⚙ max. 0.3 Nm
 Wall thickness housing: 0.5 - 1.5 mm
 Stripping length: 7 mm
 Important approvals: VDE
 Upon request: clamping spring contacts, frames white or light red, to
 be used in wall thickness housing
 1.5 - 2.5 mm, different polyamides (in particular glow
 wire to EN 60335-1),
 frames without interlocking

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Plugs without Latches				Plugs with black Frames and Latches			
Coding 1 (L PE N)	AC 166 GEKST/ 3 white	168153	200	Coding 1 (L PE N)	AC 166 GESTBV/ 3 coral red	168263X	200
	AC 166 GEKST/ 3 black	168163	200	Coding 2 (L PE N)	AC 166 GESTBV/ 3 pebble grey	168263K	200
Plugs with Latches				Coding 3 (L PE N)	AC 166 GESTBV/ 3 light red	168263R	200
Coding 1 (L PE N)	AC 166 GEKSTV/ 3 white with VSE	168153V	200	Coding 4 (1 2 3)	AC 166 GESTBV/ 3 brown	168263B	200
	AC 166 GEKSTV/ 3 black with VSE	168163V	200	Coding 5 (1 2 3) DALI	AC 166 GESTBV/ 3 pastel blue	168263P	200
Sockets without Latches				Coding 6 (L PE N)	AC 166 GESTBV/ 3 green	168263G	200
Coding 1 (N PE L)	AC 166 GEKBU/ 3 white	168453	200	Coding 7 (L -- N)	AC 166 GESTBV/ 3 dark grey	168263D	200
	AC 166 GEKBU/ 3 black	168463	200	Coding 9 (1 2 3)	AC 166 GESTBV/ 3 yellow	168263Y	200
Sockets with Latches				Sockets with black Frames and Latches			
Coding 1 (N PE L)	AC 166 GEKBV/ 3 white with VSE	168453V	200	Coding 1 (N PE L)	AC 166 GEBUBV/ 3 coral red	168363X	200
	AC 166 GEKBV/ 3 black with VSE	168463V	200	Coding 2 (N PE L)	AC 166 GEBUBV/ 3 pebble grey	168363K	200
Latches, separately				Coding 3 (N PE L)	AC 166 GEBUBV/ 3 light red	168363R	200
	AC 166 VSE white	169453	100	Coding 4 (3 2 1)	AC 166 GEBUBV/ 3 brown	168363B	200
	AC 166 VSE black	169463	100	Coding 5 (3 2 1) DALI	AC 166 GEBUBV/ 3 pastel blue	168363P	200
				Coding 6 (N PE L)	AC 166 GEBUBV/ 3 green	168363G	200
				Coding 7 (N -- L)	AC 166 GEBUBV/ 3 dark grey	168363D	200
				Coding 9 (3 2 1)	AC 166 GEBUBV/ 3 yellow	168363Y	200



AC 166[®] G 3 pole



Plugs and Sockets Protection Class II

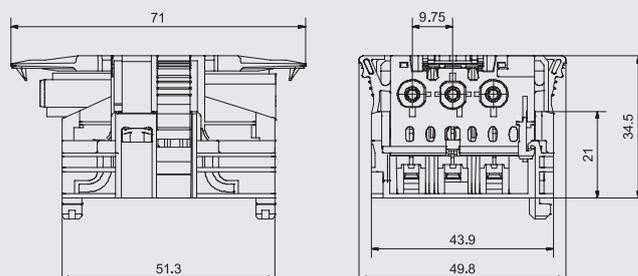
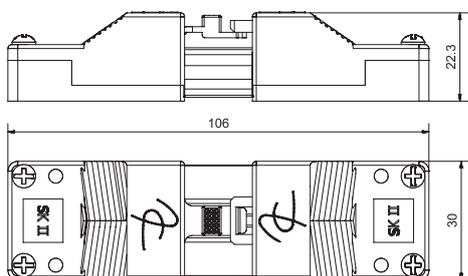
Connection: screw
conductors 1.5 mm²
Torque screw: M3: ⚡ max. 0.5 Nm (conductor)
C2.9: ⚡ max. 0,5 Nm (strain relief)
Stripping length: 7 mm
Dismantling length: 26 mm
Important approvals: VDE
Upon request: connectors 2.5 mm²

LINECT[®] Plug-in Adapters

Connection: distributing block 1 input terminal (plug),
1 output terminal (socket),
1 tap to the luminaire by LINECT[®] interface
Important approvals: KEMA
Accessories: protective caps (page 31), locking pins (page 53)
Upon request: 5 pole plug-in adapter, hole pattern

Description	Item	Order Number	PU
Plugs			
Coding 7 (L - N) with strain relief	AC 166 GST/ 315 SK II RH	162073RH	200
Sockets			
Coding 7 (N - L) with strain relief	AC 166 GBU/ 315 SK II RO	165073RO	200

Description	Item	Order Number	PU
Coding 1	AC 166 GLNCT/ 3 white	167853	100





Distributing Blocks

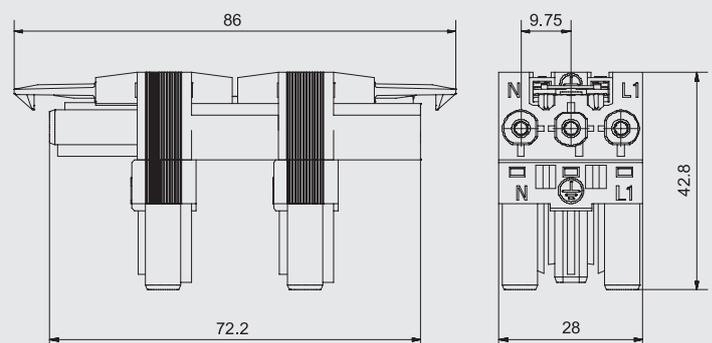
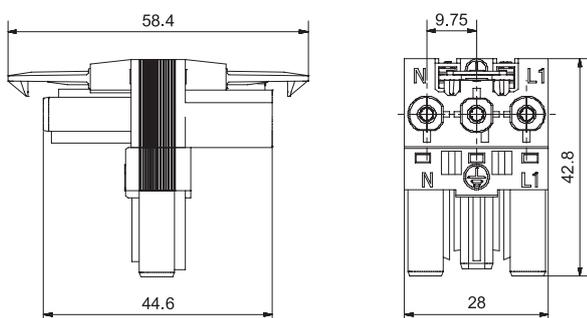
Connection: distributing block 1 input terminal (plug) and 2 output terminals (socket)
 Important approvals: VDE
 Accessories: protective caps (page 31), locking pins (page 53)



Distributing Blocks

Connection: distributing block 1 input terminal (plug) and 3 output terminals (socket)
 Accessories: protective caps (page 31), fastening clip (page 30), locking pins (page 53)
 Upon request: different no. of output terminals (4, 6 or more), with enclosed or pre-assembled fastening clips

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Coding 1 (L PE N)	AC 166 GVT 3/ 3 white	167153	100	Coding 1 (L PE N)	AC 166 GVT 4/ 3 white	167153V2	50
	AC 166 GVT 3/ 3 black	167163	100		AC 166 GVT 4/ 3 black	167163V2	50

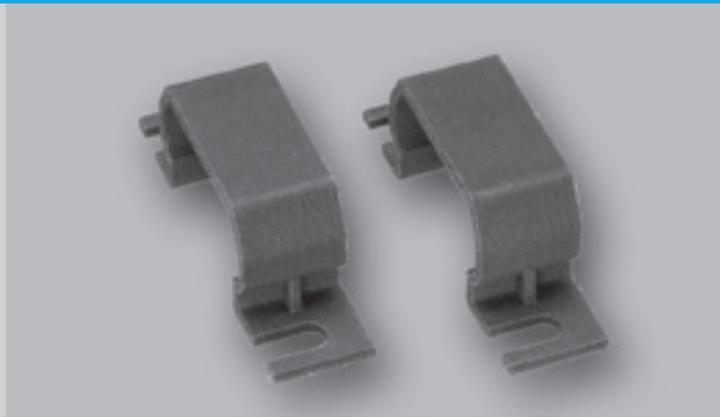


AC 166[®] G 3 pole



Distributing Blocks

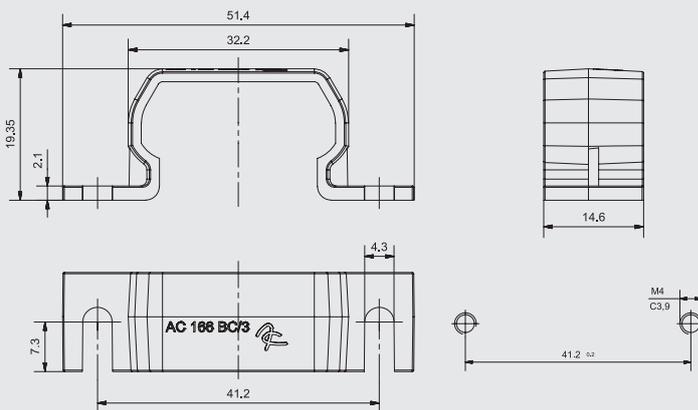
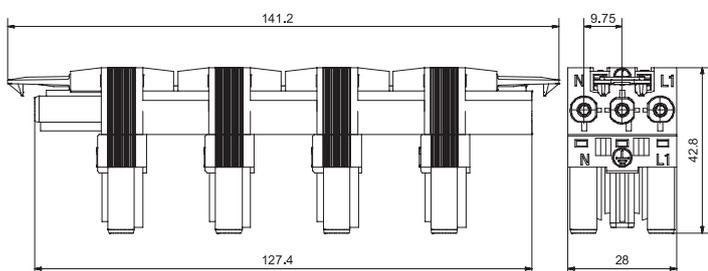
Connection: distributing block 1 input terminal (plug) and 5 output terminals (socket)
 Accessories: protective caps (page 31), fastening clip (page 30), locking pins (page 53)
 Upon request: different no. of output terminals (4, 6 or more), with enclosed or pre-assembled fastening clips



Fastening Clip

Fixing: by flat headed screw M4 or self-tapping screw C3.9

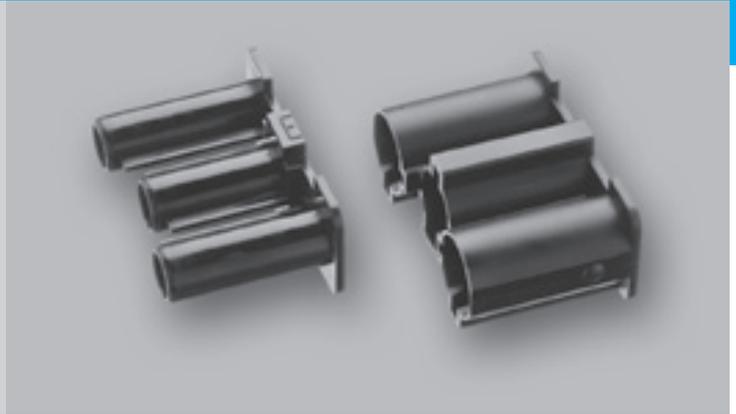
Description	Item	Order Number	PU	Description	Item	Order Number	PU
Coding 1 (L PE N)	AC 166 GVT 6/3 white	167153V4	25	for 3 pole distributing blocks	AC 166 BC/3 white	169773	50
	AC 166 GVT 6/3 black	167163V4	25		AC 166 BC/3 black	169783	50



AC 166[®] G 3 pole

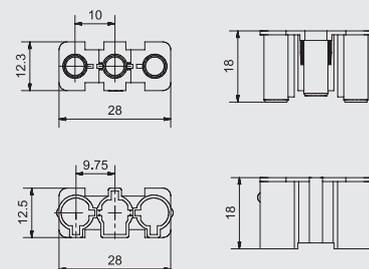
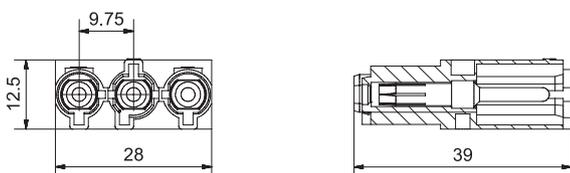


Connecting Links

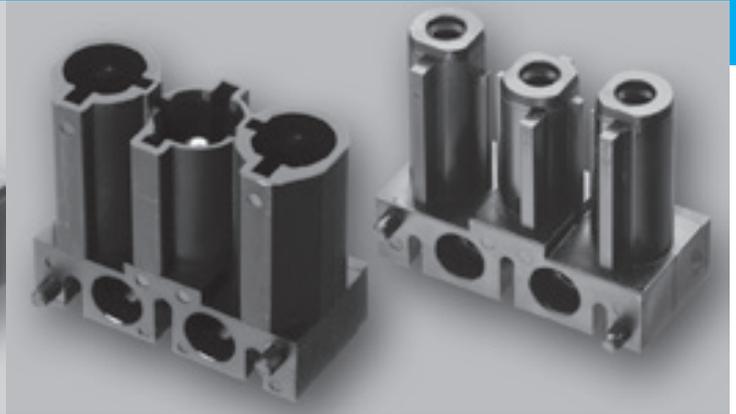
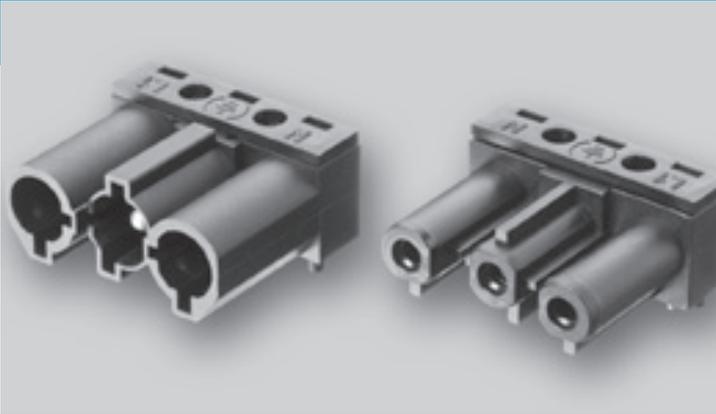


Protective Caps

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Coding 1	AC 166 GKU/ 3 white	167053	200	for plugs	AC 166 VKE/ 3 white	169153	100
	AC 166 GKU/ 3 black	167063	200		AC 166 VKE/ 3 black	169163	100
				for sockets	AC 166 VKH/ 3 white	169253	100
					AC 166 VKH/ 3 black	169263	100



AC 166[®] G 3 pole



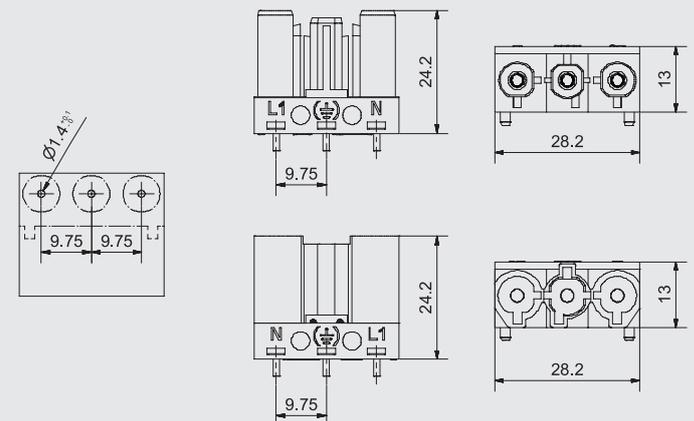
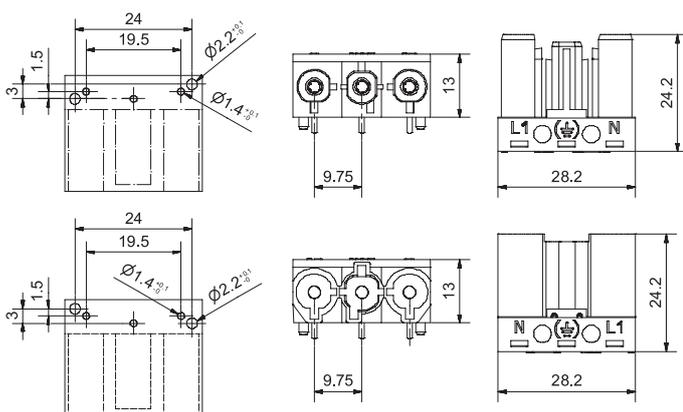
Plugs and Sockets with Solder Terminals

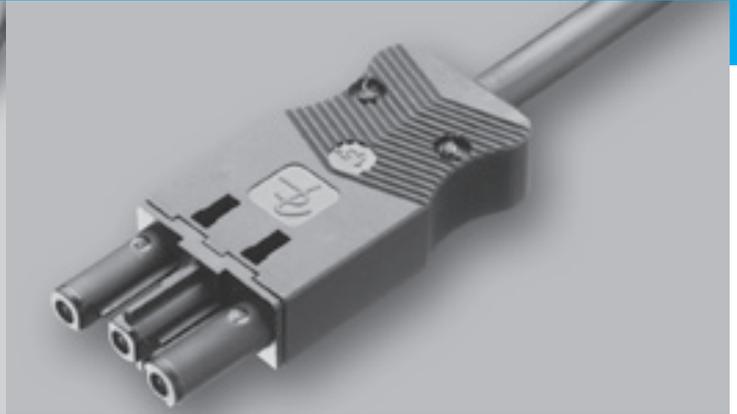
Connection: horizontal/rectangular connection to pc-board
 Length solder pin: 3.3 mm
 Eyelet/mounting hole: $\varnothing 1.4$ mm
 Important approvals: KEMA, UL
 Accessories: latches, locking pins (page 53), protective caps, connecting links (page 31)

Plugs and Sockets with Solder Terminals

Connection: vertical/straight connection to pc-board
 Length solder pin: 3.3 mm
 Eyelet/mounting hole: $\varnothing 1.4$ mm
 Important approvals: KEMA, UL
 Accessories: latches, locking pins (page 53), protective caps, connecting links (page 31)

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Plugs without Latches				Plugs without Latches			
Coding 1 (L PE N)	AC 166 GSTLH/ 3 white	169953	500	Coding 1 (L PE N)	AC 166 GSTLV/ 3 white	169653	500
	AC 166 GSTLH/ 3 black	169963	500		AC 166 GSTLV/ 3 black	169663	500
Coding 2 (L PE N)	AC 166 GSTLH/ 3 pebble grey	169903	500	Coding 2 (L PE N)	AC 166 GSTLV/ 3 pebble grey	169603	500
Plugs with Latches				Plugs with Latches			
Coding 1 (L PE N)	AC 166 GSTLH/ 3 white with VSL	169953V	500	Coding 1 (L PE N)	AC 166 GSTLV/ 3 white with VSL	169653V	500
	AC 166 GSTLH/ 3 black with VSL	169963V	500		AC 166 GSTLV/ 3 black with VSL	169663V	500
Coding 2 (L PE N)	AC 166 GSTLH/ 3 pebble grey with VSL	169903V	500	Coding 2 (L PE N)	AC 166 GSTLV/ 3 pebble grey with VSL	169603V	500
Sockets without Latches				Sockets without Latches			
Coding 1 (N PE L)	AC 166 GBULH/ 3 white	169053	500	Coding 1 (N PE L)	AC 166 GBULV/ 3 white	169353	500
	AC 166 GBULH/ 3 black	169063	500		AC 166 GBULV/ 3 black	169363	500
Coding 2 (N PE L)	AC 166 GBULH/ 3 pebble grey	169003	500	Coding 2 (N PE L)	AC 166 GBULV/ 3 pebble grey	169303	500
Coding 5 (3 2 1) DALI	AC 166 GBULH/ 3 pastel blue	169043	500	Coding 5 (3 2 1) DALI	AC 166 GBULV/ 3 pastel blue	169343	500
Sockets with Latches				Sockets with Latches			
Coding 1 (N PE L)	AC 166 GBULH/ 3 white with VSL	169053V	500	Coding 1 (N PE L)	AC 166 GBULV/ 3 white with VSL	169353V	500
	AC 166 GBULH/ 3 black with VSL	169063V	500		AC 166 GBULV/ 3 black with VSL	169363V	500
Coding 2 (N PE L)	AC 166 GBULH/ 3 pebble grey with VSL	169003V	500	Coding 2 (N PE L)	AC 166 GBULV/ 3 pebble grey with VSL	169303V	500
Coding 5 (3 2 1) DALI	AC 166 GBULH/ 3 pastel blue with VSL	169043V	500	Coding 5 (3 2 1) DALI	AC 166 GBULV/ 3 pastel blue with VSL	169343V	500
Latches, separately				Latches, separately			
	AC 166 VSL black	169564	1000		AC 166 VSL black	169564	1000





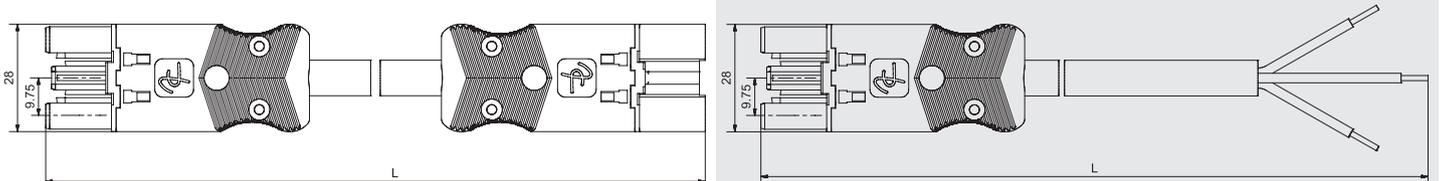
Extension Cables

Important approvals: VDE, KEMA
 Accessories: protective caps, connecting links (page 31), latches, locking pins (page 53), distributing blocks (page 29, 30)
 Upon request: different cables, different codings
 for 5 kV ignition voltage: ignition cable H05SS-F, coding 3 light red, strain relief light red, printed with "5 kV"

Connecting Cables with Socket

Stripping length: 9 mm
 Dismantling length: 39 mm (PE), 32 mm (L N)
 Important approvals: VDE, KEMA
 Accessories: protective caps (page 31), latches (page 53), connecting links (page 31), locking pins (page 53), distributing blocks (page 29, 30)
 Upon request: different cables, different codings, wire ends with ferrules, different stripping / dismantling lengths
 for 5 kV ignition voltage: ignition cable H05SS-F, coding 3 light red, strain relief light red, printed with "5 kV"

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Cable 1.5 mm² PVC (H05VV-F)				Cable 1.5 mm² PVC (H05VV-F)			
1 metre	AC 166 VLGG/315 100 white	16475310	75	1 metre	AC 166 ALCGB/315 100 white	16625310	75
	AC 166 VLGG/315 100 black	16476310	75		AC 166 ALCGB/315 100 black	16626310	75
2 metres	AC 166 VLGG/315 200 white	16475320	50	2 metres	AC 166 ALCGB/315 200 white	16625320	50
	AC 166 VLGG/315 200 black	16476320	50		AC 166 ALCGB/315 200 black	16626320	50
x metres	AC 166 VLGG/315 x00 white	164753x0		x metres	AC 166 ALCGB/315 x00 white	166253x0	
	AC 166 VLGG/315 x00 black	164763x0			AC 166 ALCGB/315 x00 black	166263x0	
Cable 1.5 mm² halogen-free (H05Z1Z1-F)				Cable 1.5 mm² halogen-free (H05Z1Z1-F)			
1 metre	AC 166 VLGG/315 100 H05Z1Z1 white	96475310	75	1 metre	AC 166 ALCGB/315 100 H05Z1Z1 white	96595310	75
	AC 166 VLGG/315 100 H05Z1Z1 black	96476310	75		AC 166 ALCGB/315 100 H05Z1Z1 black	96596310	75
2 metres	AC 166 VLGG/315 200 H05Z1Z1 white	96475320	50	2 metres	AC 166 ALCGB/315 200 H05Z1Z1 white	96595320	50
	AC 166 VLGG/315 200 H05Z1Z1 black	96476320	50		AC 166 ALCGB/315 200 H05Z1Z1 black	96596320	50
x metres	AC 166 VLGG/315 x00 H05Z1Z1 white	964753x0		x metres	AC 166 ALCGB/315 x00 H05Z1Z1 white	965953x0	
	AC 166 VLGG/315 x00 H05Z1Z1 black	964763x0			AC 166 ALCGB/315 x00 H05Z1Z1 black	965963x0	
Cable 2.5 mm² PVC (H05VV-F)				Cable 2.5 mm² PVC (H05VV-F)			
1 metre	AC 166 VLGG/325 100 white	16477310	50	1 metre	AC 166 ALCGB/325 100 white	16627310	50
	AC 166 VLGG/325 100 black	16478310	50		AC 166 ALCGB/325 100 black	16628310	50
2 metres	AC 166 VLGG/325 200 white	16477320	25	2 metres	AC 166 ALCGB/325 200 white	16627320	25
	AC 166 VLGG/325 200 black	16478320	25		AC 166 ALCGB/325 200 black	16628320	25
x metres	AC 166 VLGG/325 x00 white	164773x0		x metres	AC 166 ALCGB/325 x00 white	166273x0	
	AC 166 VLGG/325 x00 black	164783x0			AC 166 ALCGB/325 x00 black	166283x0	
Cable 2.5 mm² halogen-free (H05Z1Z1-F)				Cable 2.5 mm² halogen-free (H05Z1Z1-F)			
1 metre	AC 166 VLGG/325 100 H05Z1Z1 black	96478310	50	1 metre	AC 166 ALCGB/325 100 H05Z1Z1 black	96598310	50
2 metres	AC 166 VLGG/325 200 H05Z1Z1 black	96478320	25	2 metres	AC 166 ALCGB/325 200 H05Z1Z1 black	96598320	25
x metres	AC 166 VLGG/325 x00 H05Z1Z1 black	964783x0		x metres	AC 166 ALCGB/325 x00 H05Z1Z1 black	965983x0	



AC 166[®] G 3 pole



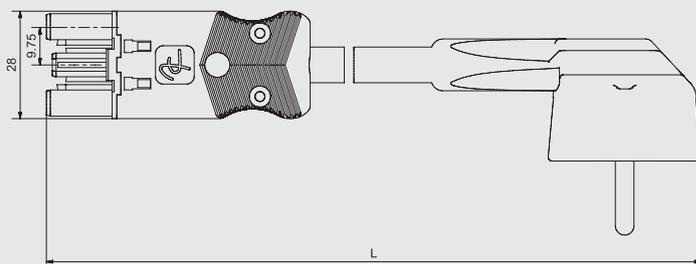
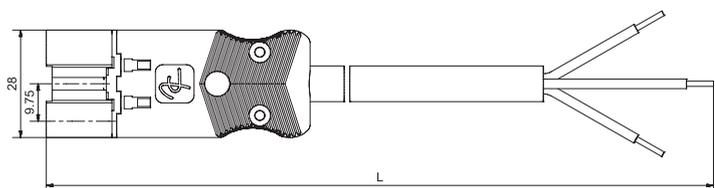
Connecting Cables with Plug

Stripping length: 9 mm
 Dismantling length: 39 mm (PE), 32 mm (L N)
 Important approvals: VDE, KEMA
 Accessories: protective caps (page 31), latches (page 53), connecting links (page 31), distributing blocks (page 29, 30)
 Upon request: different cables, different codings, wire ends with ferrules, different stripping / dismantling lengths for 5 kV ignition voltage: ignition cable H05SS-F, coding 3 light red, strain relief light red, printed with "5 kV"

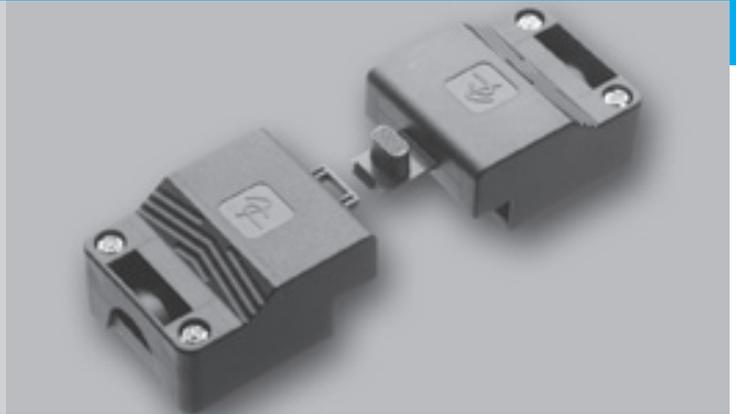
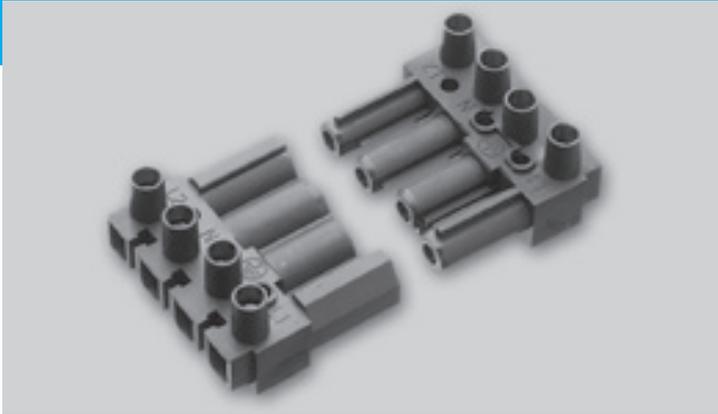
Mains Cables with Socket

Accessories: protective caps, connecting links (page 31), latches, locking pins (page 53), distributing blocks (page 29, 30)
 Upon request: straight earthing type plug, cable size 2.5 mm², halogen-free cables

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Cable 1.5 mm² PVC (H05VV-F)				Cable 1.5 mm² PVC (H05VV-F) with rectangular Earthing Type Plug			
1 metre	AC 166 ALCGS/315 100 white	16315310	75	1 metre	AC 166 NLCGB/315 100 white	98565310	75
	AC 166 ALCGS/315 100 black	16316310	75		AC 166 NLCGB/315 100 black	98566310	75
2 metres	AC 166 ALCGS/315 200 white	16315320	50	2 metres	AC 166 NLCGB/315 200 white	98565320	50
	AC 166 ALCGS/315 200 black	16316320	50		AC 166 NLCGB/315 200 black	98566320	50
x metres	AC 166 ALCGS/315 x00 white	163153x0		x metres	AC 166 NLCGB/315 x00 white	985653x0	
	AC 166 ALCGS/315 x00 black	163163x0			AC 166 NLCGB/315 x00 black	985663x0	
Cable 1.5 mm² halogen-free (H05Z1Z1-F)							
1 metre	AC 166 ALCGS/315 100 H05Z1Z1 white	96285310	75				
	AC 166 ALCGS/315 100 H05Z1Z1 black	96286310	75				
2 metres	AC 166 ALCGS/315 200 H05Z1Z1 white	96285320	50				
	AC 166 ALCGS/315 200 H05Z1Z1 black	96286320	50				
x metres	AC 166 ALCGS/315 x00 H05Z1Z1 white	962853x0					
	AC 166 ALCGS/315 x00 H05Z1Z1 black	962863x0					
Cable 2.5 mm² PVC (H05VV-F)							
1 metre	AC 166 ALCGS/325 100 white	16317310	50				
	AC 166 ALCGS/325 100 black	16318310	50				
2 metres	AC 166 ALCGS/325 200 white	16317320	25				
	AC 166 ALCGS/325 200 black	16318320	25				
x metres	AC 166 ALCGS/325 x00 white	163173x0					
	AC 166 ALCGS/325 x00 black	163183x0					
Cable 2.5 mm² halogen-free (H05Z1Z1-F)							
1 metre	AC 166 ALCGS/325 100 H05Z1Z1 black	96288310	50				
2 metres	AC 166 ALCGS/325 200 H05Z1Z1 black	96288320	25				
x metres	AC 166 ALCGS/325 x00 H05Z1Z1 black	962883x0					



AC 166[®] G 4 pole



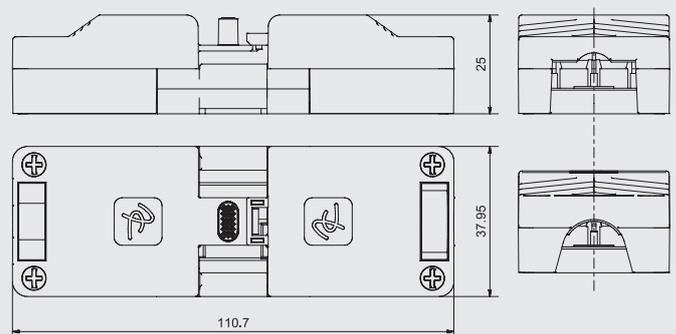
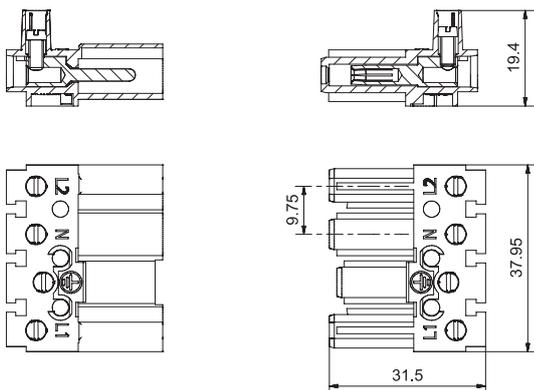
Plugs and Sockets

Connection: screw
 conductor size 0.5 - 2.5 mm²
Torque screw: M3: ⚡ max. 0.5 Nm
Stripping length: 7 mm
Important approvals: VDE, KEMA, UL
Accessories: strain reliefs (page 35), latches, locking pins (page 53), distributing block (page 37)
Upon request: with strain relief assembled

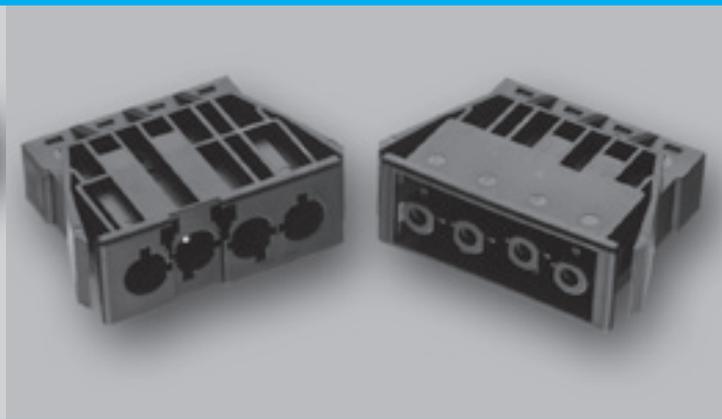
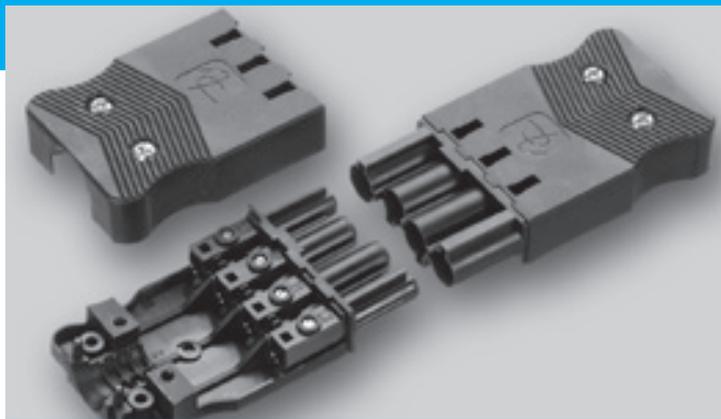
Strain Reliefs

Connection: cable outlet
 type "R": round conductor Ø 6.5 - 8.8 mm
 type "F": round conductor Ø 9.0 - 11.5 mm
 type "F": flat conductor up to 4.5 mm
Torque screw: C2.9: ⚡ max. 0.5 Nm
Dismantling length: 42 mm (PE), 35 mm (L1 L2 N)
Upon request: strain relief for latches

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Plugs				Type "R"			
Coding 1 (1 PE N 2)	AC 166 GST/ 4 white	162054	150	without interlocking	AC 166-1/ 4 ZEL R white	166054	150
	AC 166 GST/ 4 black	162064	150		AC 166-1/ 4 ZEL R black	166064	150
				with hook for plugs	AC 166-1/ 4 ZEL RH white	166054H	150
					AC 166-1/ 4 ZEL RH black	166064H	150
Sockets				with eye for sockets	AC 166-1/ 4 ZEL RO white	1660540	150
Coding 1 (2 N PE 1)	AC 166 GBU/ 4 white	165054	150		AC 166-1/ 4 ZEL RO black	1660640	150
	AC 166 GBU/ 4 black	165064	150	Type "F"			
				without interlocking	AC 166-1/ 4 ZEL F white	166154	150
					AC 166-1/ 4 ZEL F black	166164	150
				with hook for plugs	AC 166-1/ 4 ZEL FH white	166154H	150
					AC 166-1/ 4 ZEL FH black	166164H	150
				with eye for sockets	AC 166-1/ 4 ZEL FO white	1661540	150
					AC 166-1/ 4 ZEL FO black	1661640	150



AC 166[®] G 4 pole



Plugs and Sockets, flat

Connection: screw
 conductor size 0.5 - 2.5 mm²
 cable outlet
 4 x 1.5 mm²: Ø 8.4 - 9.4 mm
 4 x 2.5 mm²: Ø 10.3 - 11.3 mm

Torque screw: M3: ⤵ max. 0.3 Nm (conductor)
 C2.9: ⤵ max. 0.5 Nm (strain relief)

Stripping length: 7 mm
 Dismantling length: 42 mm (PE), 35 mm (L1 N L2)
 Important approvals: VDE, KEMA, UL

Accessories: latches, locking pins (page 53), distributing blocks (page 37),

Upon request: connectors for 0.5 mm², 0.75 mm² and 1.0 mm², different housing screws

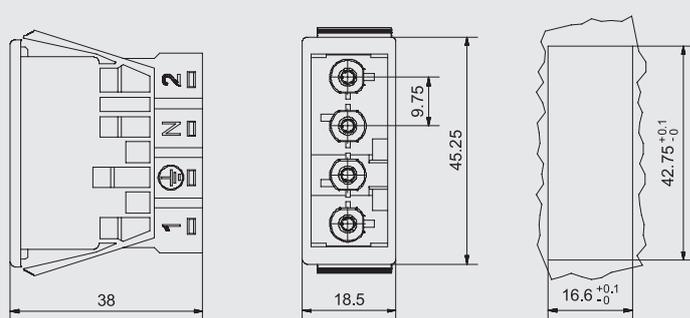
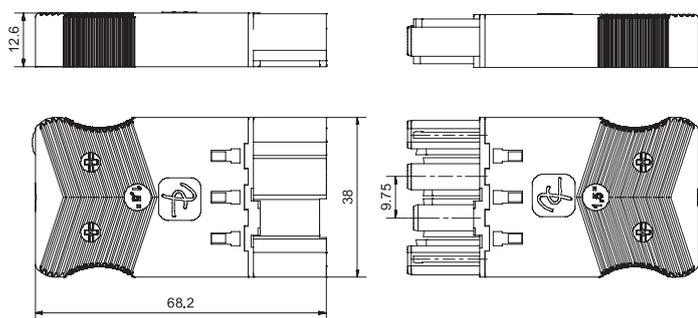
Built-in Plugs and Built-in Sockets

Connection: clamping spring contacts, 2 clamping units per pole
 conductor size 0.5 - 2.5 mm²
 solid or flexible, sealed
 conductor size 0.5 - 1.5 mm²
 flexible with ferrules

Wall thickness housing: 0.5 - 1.2 mm
 Stripping length: 8 - 9 mm
 Important approvals: VDE, KEMA, UL

Accessories: latches, locking pins (page 53), distributing blocks (page 37)

Description	Item	Order Number	PU	Description	Item	Order Number	PU		
Plugs, Connection 1.5 mm²				Plugs without Latches					
Coding 1 (1 PE N 2)	AC 166 GSTF/ 415 white	162454	150	Coding 1 (1 PE N 2)	AC 166 GEST/ 4 white	168754	150		
	AC 166 GSTF/ 415 black	162464	150		AC 166 GEST/ 4 black	168764	150		
Plugs, Connection 2.5 mm²				Plugs with Latches					
Coding 1 (1 PE N 2)	AC 166 GSTF/ 425 white	162654	150	Coding 1 (1 PE N 2)	AC 166 GEST/ 4 white with VSE	168754V	150		
	AC 166 GSTF/ 425 black	162664	150		AC 166 GEST/ 4 black with VSE	168764V	150		
Sockets, Connection 1.5 mm²				Sockets without Latches					
Coding 1 (2 N PE 1)	AC 166 GBUF/ 415 white	165454	150	Coding 1 (2 N PE 1)	AC 166 GEBU/ 4 white	168854	150		
	AC 166 GBUF/ 415 black	165464	150		AC 166 GEBU/ 4 black	168864	150		
Sockets, Connection 2.5 mm²				Sockets with Latches					
Coding 1 (2 N PE 1)	AC 166 GBUF/ 425 white	165654	150	Coding 1 (2 N PE 1)	AC 166 GEBU/ 4 white with VSE	168854V	150		
	AC 166 GBUF/ 425 black	165664	150		AC 166 GEBU/ 4 black with VSE	168864V	150		
				Latches, separately					
				AC 166 VSE white				169453	100
				AC 166 VSE black				169463	100





Distributing Blocks

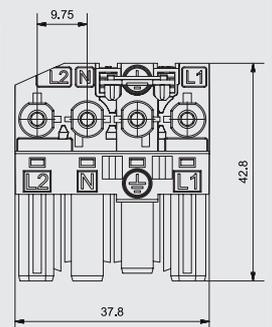
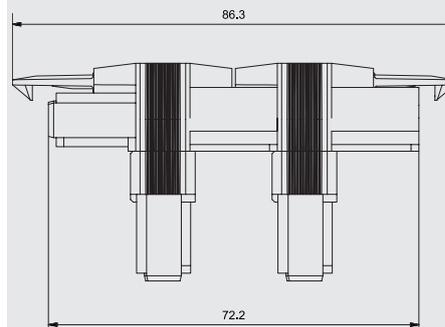
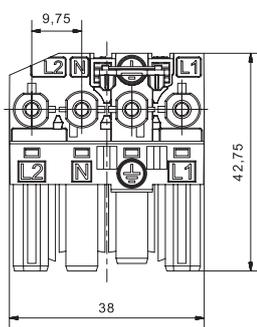
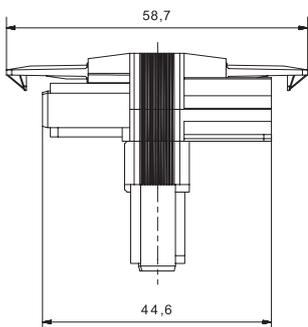
Connection: distributing block 1 input terminal (plug)
and 2 output terminals (socket)
Accessories: locking pins (page 53)



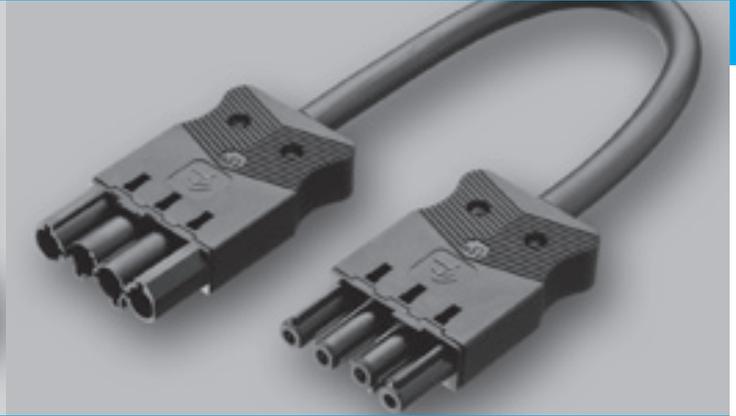
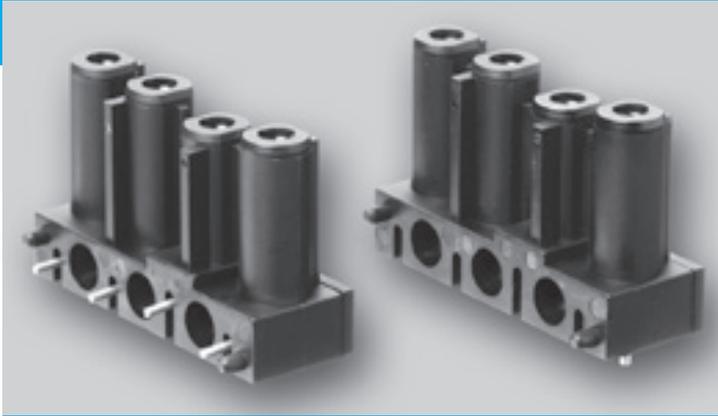
Distributing Blocks

Connection: distributing block 1 input terminal (plug)
and 3 output terminals (socket)
Accessories: locking pins (page 53)
Upon request: different no. of output terminals (4, 5, 6 or more)

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Coding 1 (1 PE N 2)	AC 166 GVT 3/ 4 white	167154	100	Coding 1 (1 PE N 2)	AC 166 GVT 4/ 4 white	167154V2	50
	AC 166 GVT 3/ 4 black	167164	100		AC 166 GVT 4/ 4 black	167164V2	50



AC 166[®] G 4 pole



Sockets with Solder Terminals

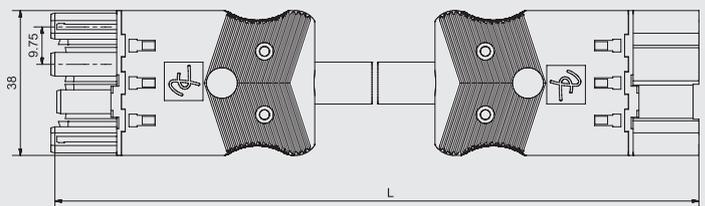
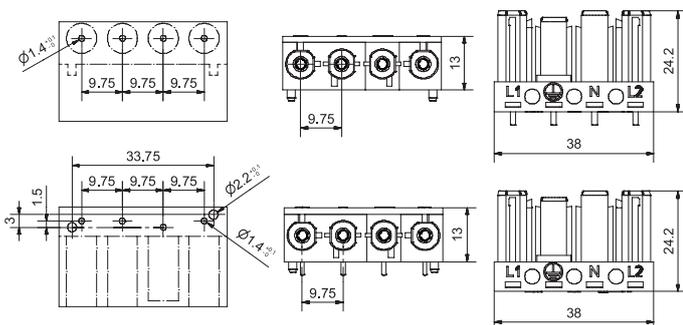
Connection: horizontal/rectangular or vertical/straight connection to pc-board
 Length solder pin: 3.3 mm
 Eyelet/mounting hole: Ø 1.4 mm
 Important approvals: KEMA, UL
 Accessories: latches, locking pins (page 53)

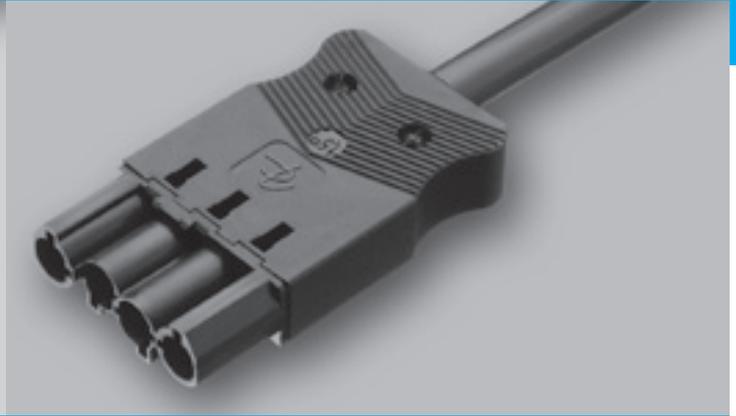
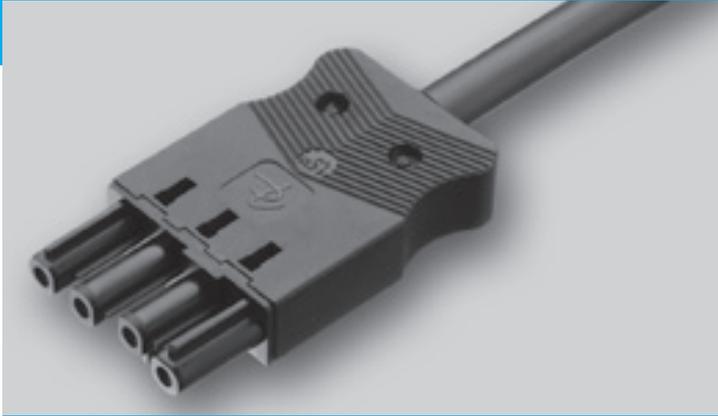
Extension Cables

Important approvals: VDE, KEMA
 Accessories: latches, locking pins (page 53), distributing blocks (page 37)
 Upon request: different cables

Description	Item	Order Number	PU
Sockets horizontal, without Latches			
Coding 1 (2 N PE 1)	AC 166 GBULH/ 4 white	169054	150
	AC 166 GBULH/ 4 black	169064	150
Sockets horizontal, with Latches			
Coding 1 (2 N PE 1)	AC 166 GBULH/ 4 white with VSL	169054V	150
	AC 166 GBULH/ 4 black with VSL	169064V	150
Sockets vertical, without Latches			
Coding 1 (2 N PE 1)	AC 166 GBULV/ 4 white	169354	150
	AC 166 GBULV/ 4 black	169364	150
Sockets vertical, with Latches			
Coding 1 (2 N PE 1)	AC 166 GBULV/ 4 white with VSL	169354V	150
	AC 166 GBULV/ 4 black with VSL	169364V	150
Latches, separately			
	AC 166 VSL black	169564	100

Description	Item	Order Number	PU
Cable 1.5 mm² PVC (H05VV-F)			
1 metre	AC 166 VLCG/415 100 white	16475410	50
	AC 166 VLCG/415 100 black	16476410	50
2 metres	AC 166 VLCG/415 200 white	16475420	25
	AC 166 VLCG/415 200 black	16476420	25
x metres	AC 166 VLCG/415 x00 white	164754x0	
	AC 166 VLCG/415 x00 black	164764x0	
Cable 1.5 mm² halogen-free (H05Z1Z1-F)			
1 metre	AC 166 VLCG/415 100 H05Z1Z1 white	96475410	50
	AC 166 VLCG/415 100 H05Z1Z1 black	96476410	50
2 metres	AC 166 VLCG/415 200 H05Z1Z1 white	96475420	25
	AC 166 VLCG/415 200 H05Z1Z1 black	96476420	25
x metres	AC 166 VLCG/415 x00 H05Z1Z1 white	964754x0	
	AC 166 VLCG/415 x00 H05Z1Z1 black	964764x0	
Cable 2.5 mm² PVC (H05VV-F)			
1 metre	AC 166 VLCG/425 100 white	16477410	30
	AC 166 VLCG/425 100 black	16478410	30
2 metres	AC 166 VLCG/425 200 white	16477420	20
	AC 166 VLCG/425 200 black	16478420	20
x metres	AC 166 VLCG/425 x00 white	164774x0	
	AC 166 VLCG/425 x00 black	164784x0	
Cable 2.5 mm² halogen-free (H05Z1Z1-F)			
1 metre	AC 166 VLCG/425 100 H05Z1Z1 white	96477410	30
	AC 166 VLCG/425 100 H05Z1Z1 black	96478410	30
2 metres	AC 166 VLCG/425 200 H05Z1Z1 white	96477420	20
	AC 166 VLCG/425 200 H05Z1Z1 black	96478420	20
x metres	AC 166 VLCG/425 x00 H05Z1Z1 white	964774x0	
	AC 166 VLCG/425 x00 H05Z1Z1 black	964784x0	





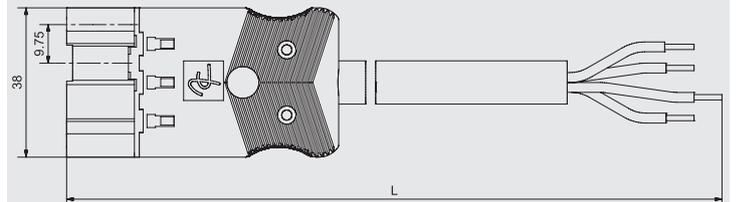
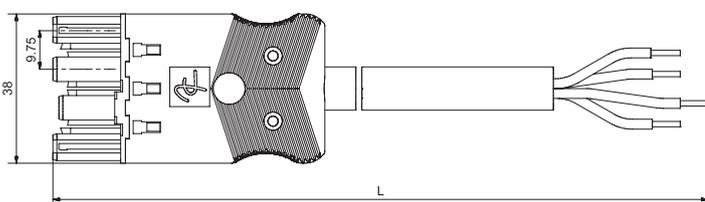
Connecting Cables with Socket

Stripping length: 9 mm
 Dismantling length: 42 mm (PE), 35 mm (L1 L2 N)
 Important approvals: VDE, KEMA
 Accessories: latches, locking pins (page 53), distributing blocks (page 37)
 Upon request: different cables, wire ends with ferrules, different stripping / dismantling lengths

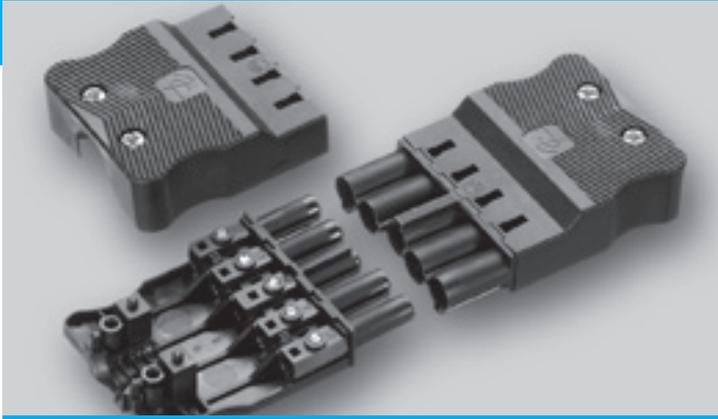
Connecting Cables with Plug

Stripping length: 9 mm
 Dismantling length: 42 mm (PE), 35 mm (L1 L2 N)
 Important approvals: VDE, KEMA
 Accessories: latches (page 53), distributing blocks (page 37)
 Upon request: different cables, wire ends with ferrules, different stripping / dismantling lengths

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Cable 1.5 mm² PVC (H05VV-F)				Cable 1.5 mm² PVC (H05VV-F)			
1 metre	AC 166 ALCGB/415 100 white	16625410	50	1 metre	AC 166 ALCGS/415 100 white	16315410	50
	AC 166 ALCGB/415 100 black	16626410	50		AC 166 ALCGS/415 100 black	16316410	50
2 metres	AC 166 ALCGB/415 200 white	16625420	25	2 metres	AC 166 ALCGS/415 200 white	16315420	25
	AC 166 ALCGB/415 200 black	16626420	25		AC 166 ALCGS/415 200 black	16316420	25
x metres	AC 166 ALCGB/415 x00 white	166254x0		x metres	AC 166 ALCGS/415 x00 white	163154x0	
	AC 166 ALCGB/415 x00 black	166264x0			AC 166 ALCGS/415 x00 black	163164x0	
Cable 1.5 mm² halogen-free (H05Z1Z1-F)				Cable 1.5 mm² halogen-free (H05Z1Z1-F)			
1 metre	AC 166 ALCGB/415 100 H05Z1Z1 white	96595410	50	1 metre	AC 166 ALCGS/415 100 H05Z1Z1 white	96285410	50
	AC 166 ALCGB/415 100 H05Z1Z1 black	96596410	50		AC 166 ALCGS/415 100 H05Z1Z1 black	96286410	50
2 metres	AC 166 ALCGB/415 200 H05Z1Z1 white	96595420	25	2 metres	AC 166 ALCGS/415 200 H05Z1Z1 white	96285420	25
	AC 166 ALCGB/415 200 H05Z1Z1 black	96596420	25		AC 166 ALCGS/415 200 H05Z1Z1 black	96286420	25
x metres	AC 166 ALCGB/415 x00 H05Z1Z1 white	965954x0		x metres	AC 166 ALCGS/415 x00 H05Z1Z1 white	962854x0	
	AC 166 ALCGB/415 x00 H05Z1Z1 black	965964x0			AC 166 ALCGS/415 x00 H05Z1Z1 black	962864x0	
Cable 2.5 mm² PVC (H05VV-F)				Cable 2.5 mm² PVC (H05VV-F)			
1 metre	AC 166 ALCGB/425 100 white	16627410	30	1 metre	AC 166 ALCGS/425 100 white	16317410	30
	AC 166 ALCGB/425 100 black	16628410	30		AC 166 ALCGS/425 100 black	16318410	30
2 metres	AC 166 ALCGB/425 200 white	16627420	20	2 metres	AC 166 ALCGS/425 200 white	16317420	20
	AC 166 ALCGB/425 200 black	16628420	20		AC 166 ALCGS/425 200 black	16318420	20
x metres	AC 166 ALCGB/425 x00 white	166274x0		x metres	AC 166 ALCGS/425 x00 white	163174x0	
	AC 166 ALCGB/425 x00 black	166284x0			AC 166 ALCGS/425 x00 black	163184x0	
Cable 2.5 mm² halogen-free (H05Z1Z1-F)				Cable 2.5 mm² halogen-free (H05Z1Z1-F)			
1 metre	AC 166 ALCGB/425 100 H05Z1Z1 white	96597410	30	1 metre	AC 166 ALCGS/425 100 H05Z1Z1 white	96287410	30
	AC 166 ALCGB/425 100 H05Z1Z1 black	96598410	30		AC 166 ALCGS/425 100 H05Z1Z1 black	96288410	30
2 metres	AC 166 ALCGB/425 200 H05Z1Z1 white	96597420	20	2 metres	AC 166 ALCGS/425 200 H05Z1Z1 white	96287420	20
	AC 166 ALCGB/425 200 H05Z1Z1 black	96598420	20		AC 166 ALCGS/425 200 H05Z1Z1 black	96288420	20
x metres	AC 166 ALCGB/425 x00 H05Z1Z1 white	965974x0		x metres	AC 166 ALCGS/425 x00 H05Z1Z1 white	962874x0	
	AC 166 ALCGB/425 x00 H05Z1Z1 black	965984x0			AC 166 ALCGS/425 x00 H05Z1Z1 black	962884x0	



AC 166[®] G 5 pole



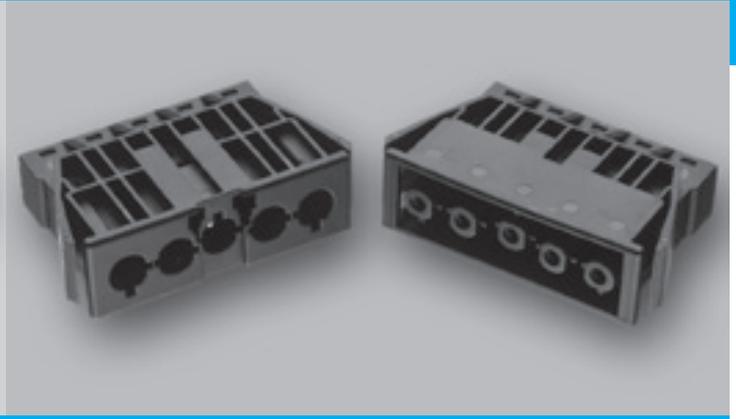
Plugs and Sockets, flat

Connection: screw
 conductor size 0.5 - 2.5 mm²
 cable outlet
 5 x 1.5 mm²: Ø 9.3 - 10.3 mm
 5 x 2.5 mm²: Ø 11.3 - 12.3 mm

Torque screw: M3: ⤵ max. 0.3 Nm (conductor)
 C2.9: ⤵ max. 0.5 Nm (strain relief)

Stripping length: 7 mm
 Dismantling length: 52 mm (PE), 45 mm (L1 L2 N L3 resp. + - N L)
 Important approvals: VDE, KEMA, UL

Accessories: latches, locking pins (page 53)
 Upon request: connectors for 0.5 mm², 0.75 mm² and 1.0 mm², different housing screws

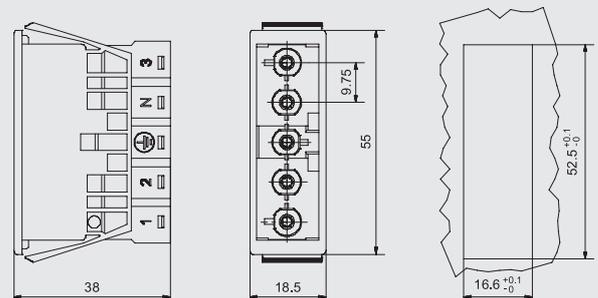
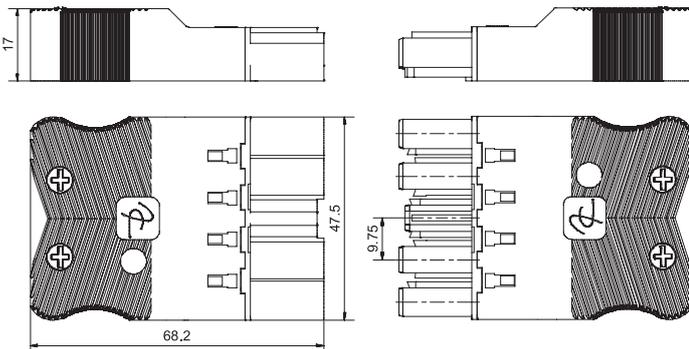


Built-in Plugs and Built-in Sockets

Connection: clamping spring contacts, 2 clamping units per pole
 conductor size 0.5 - 2.5 mm²
 solid or flexible, sealed
 conductor size 0.5 - 1.5 mm²
 flexible with ferrules

Wall thickness housing: 0.5 - 1.2 mm
 Stripping length: 8 - 9 mm
 Important approvals: VDE, KEMA, UL
 Accessories: latches, locking pins (page 53)

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Plugs, Connection 1.5 mm²				Plugs without Latches			
Coding 1 (1 2 PE N 3)	AC 166 GSTF/ 515 white	162455	100	Coding 1 (1 2 PE N 3)	AC 166 GEST/ 5 white	168755	100
	AC 166 GSTF/ 515 black	162465	100		AC 166 GEST/ 5 black	168765	100
Coding 2 (+ - PE N L) DALI	AC 166 GSTF/ 515 pastel blue	162465P	100	Coding 2 (+ - PE N L) DALI	AC 166 GEST/ 5 pastel blue	1697P5	100
Plugs, Connection 2.5 mm²				Plugs with Latches			
Coding 1 (1 2 PE N 3)	AC 166 GSTF/ 525 white	162655	100	Coding 1 (1 2 PE N 3)	AC 166 GEST/ 5 white with VSE	168755V	100
	AC 166 GSTF/ 525 black	162665	100		AC 166 GEST/ 5 black with VSE	168765V	100
Sockets, Connection 1.5 mm²				Sockets without Latches			
Coding 1 (3 N PE 2 1)	AC 166 GBUF/ 515 white	165455	100	Coding 1 (3 N PE 2 1)	AC 166 GBU/ 5 white	168855	100
	AC 166 GBUF/ 515 black	165465	100		AC 166 GBU/ 5 black	168865	100
Coding 2 (L N PE - +) DALI	AC 166 GBUF/ 515 pastel blue	165465P	100	Coding 2 (L N PE - +) DALI	AC 166 GBU/ 5 pastel blue	1698P5	100
Sockets, Connection 2.5 mm²				Sockets with Latches			
Coding 1 (3 N PE 2 1)	AC 166 GBUF/ 525 white	165655	100	Coding 1 (3 N PE 2 1)	AC 166 GBU/ 5 white with VSE	168855V	100
	AC 166 GBUF/ 525 black	165665	100		AC 166 GBU/ 5 black with VSE	168865V	100
				Coding 2 (L N PE - +) DALI	AC 166 GBU/ 5 pastel blue with VSE	1698P5V	100
				Latches, separately			
					AC 166 VSE white	169453	100
					AC 166 VSE black	169463	100





Distributing Blocks

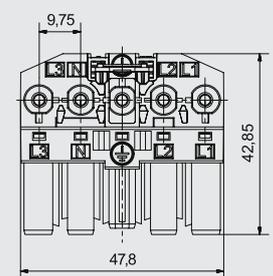
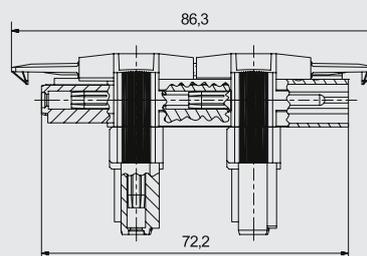
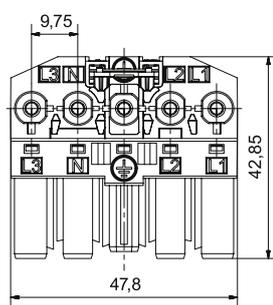
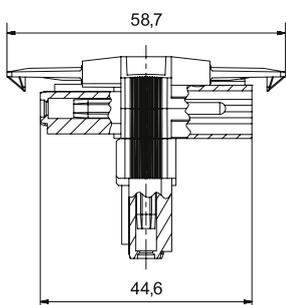
Connection: distributing block 1 input terminal (plug)
and 2 output terminals (socket)
Accessories: locking pins (page 53)



Distributing Blocks

Connection: distributing block 1 input terminal (plug)
and 3 output terminals (socket)
Accessories: locking pins (page 53)
Upon request: different no. of output terminals (4, 5, 6 or more)

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Coding 1 (L1 L2 PE N L3)	AC 166 GVT 3/ 5 white	167155	100	Coding 1 (L1 L2 PE N L3)	AC 166 GVT 4/ 5 white	167155V2	100
	AC 166 GVT 3/ 5 black	167165	100		AC 166 GVT 4/ 5 black	167165V2	100
Coding 2 (+ - PE N L)	AC 166 GVT 3/ 5 pastel blue	167165P	100	Coding 2 (+ - PE N L)	AC 166 GVT 4/ 5 pastel blue	1671P5V2	100

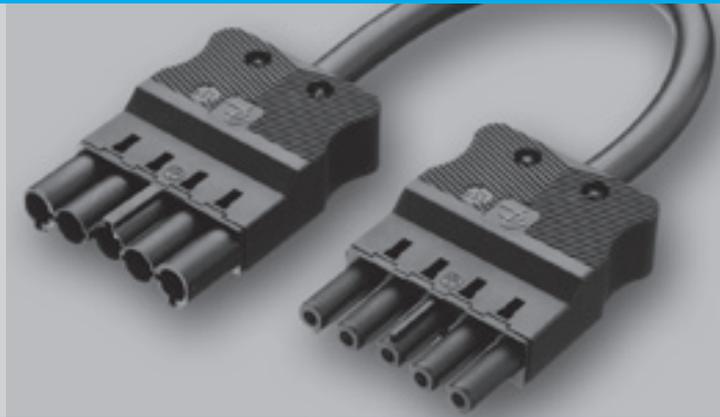


AC 166[®] G 5 pole



Distributing Blocks

Connection: distributing block 1 input terminal (plug)
and 5 output terminals (socket)
Upon request: different no. of output terminals (4, 6 or more)

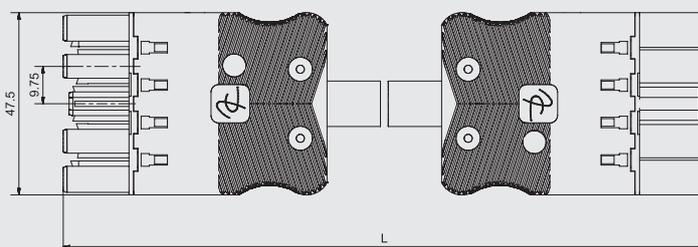
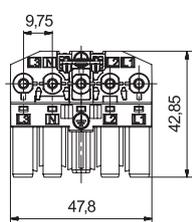
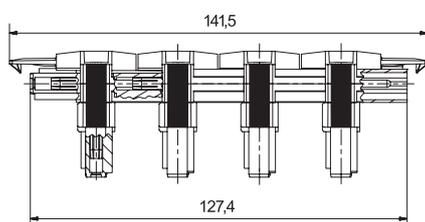


Extension Cables

Important approvals: VDE, KEMA
Accessories: latches, locking pins (page 53)
Upon request: different cables, coding 2 (+ - PE N L) DALI in pastel blue

Description	Item	Order Number	PU
Coding 1 (L1 L2 PE N L3)	AC 166 GVT 6/ 5 white	167155V4	100
	AC 166 GVT 6/ 5 black	167165V4	100
Coding 2 (+ - PE N L)	AC 166 GVT 6/ 5 pastel blue	1671P5V4	100

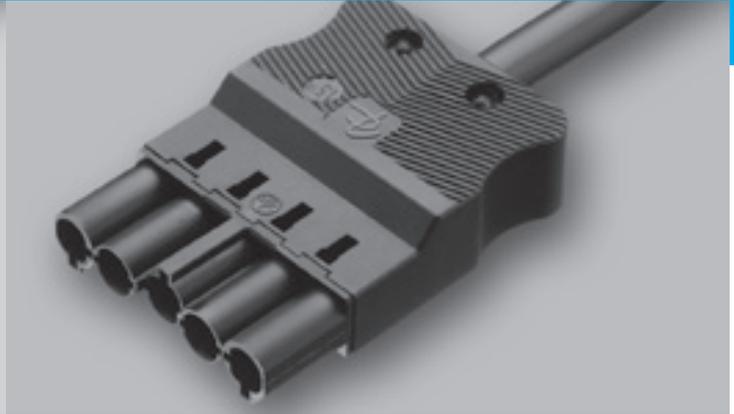
Description	Item	Order Number	PU
Cable 1.5 mm² PVC (H05VV-F)			
1 metre	AC 166 VLCG/515 100 white	16475510	30
	AC 166 VLCG/515 100 black	16476510	30
2 metres	AC 166 VLCG/515 200 white	16475520	20
	AC 166 VLCG/515 200 black	16476520	20
x metres	AC 166 VLCG/515 x00 white	164755x0	
	AC 166 VLCG/515 x00 black	164765x0	
Cable 1.5 mm² halogen-free (H05Z1Z1-F)			
1 metre	AC 166 VLCG/515 100 H05Z1Z1 black	96476510	30
2 metres	AC 166 VLCG/515 200 H05Z1Z1 black	96476520	20
x metres	AC 166 VLCG/515 x00 H05Z1Z1 black	964765x0	
Cable 2.5 mm² PVC (H05VV-F)			
1 metre	AC 166 VLCG/525 100 black	16478510	30
2 metres	AC 166 VLCG/525 200 black	16478520	20
x metres	AC 166 VLCG/525 x00 black	164785x0	





Connecting Cables with Socket

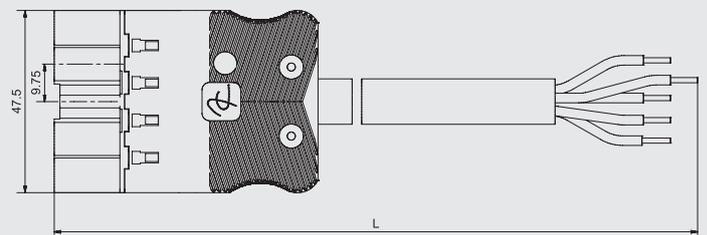
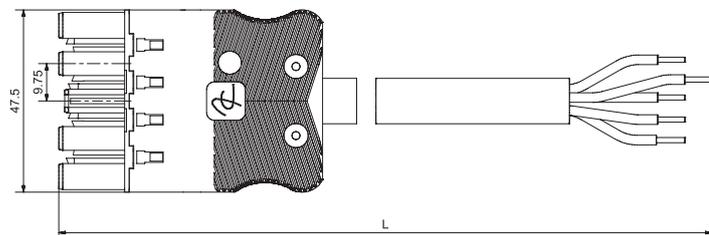
Stripping length: 9 mm
 Dismantling length: 52 mm (PE), 45 mm (L1 L2 L3 N)
 Important approvals: VDE, KEMA
 Accessories: latches, locking pins (page 53)
 Upon request: different cables, coding 2 (+ - PE N L) DALI in pastel blue, wire ends with ferrules, different stripping / dismantling lengths



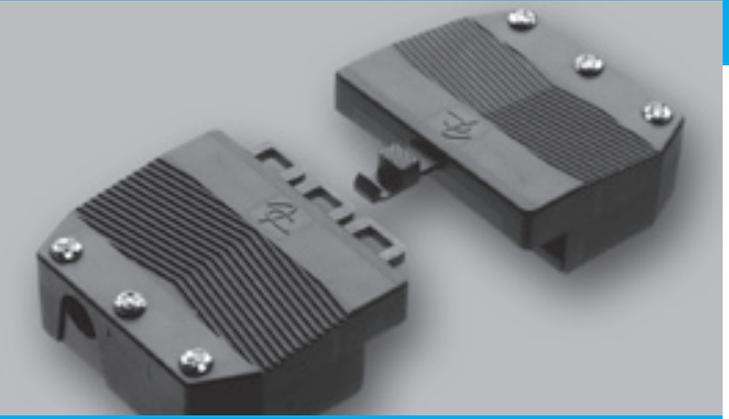
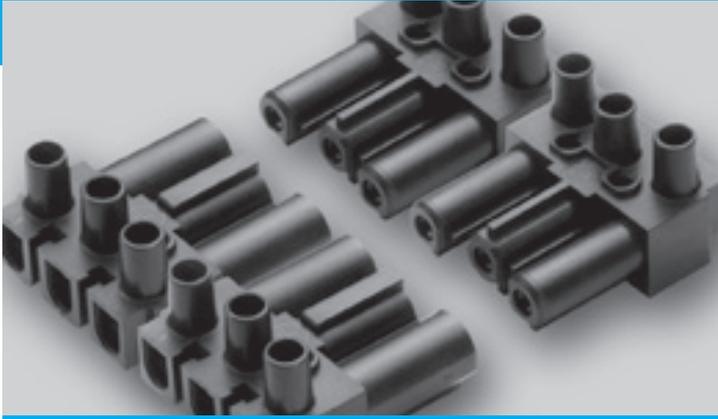
Connecting Cables with Plug

Stripping length: 9 mm
 Dismantling length: 52 mm (PE), 45 mm (L1 L2 L3 N)
 Important approvals: VDE, KEMA
 Accessories: latches (page 53)
 Upon request: different cables, coding 2 (+ - PE N L) DALI in pastel blue, wire ends with ferrules, different stripping / dismantling lengths

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Cable 1.5 mm² PVC (H05VV-F)				Cable 1.5 mm² PVC (H05VV-F)			
1 metre	AC 166 ALCGB/515 100 white	16625510	30	1 metre	AC 166 ALCGS/515 100 white	16315510	30
	AC 166 ALCGB/515 100 black	16626510	30		AC 166 ALCGS/515 100 black	16316510	30
2 metres	AC 166 ALCGB/515 200 white	16625520	20	2 metres	AC 166 ALCGS/515 200 white	16315520	20
	AC 166 ALCGB/515 200 black	16626520	20		AC 166 ALCGS/515 200 black	16316520	20
x metres	AC 166 ALCGB/515 x00 white	166255x0		x metres	AC 166 ALCGS/515 x00 white	163155x0	
	AC 166 ALCGB/515 x00 black	166265x0			AC 166 ALCGS/515 x00 black	163165x0	
Cable 1.5 mm² halogen-free (H05Z1Z1-F)				Cable 1.5 mm² halogen-free (H05Z1Z1-F)			
1 metre	AC 166 ALCGB/515 100 H05Z1Z1 black	96596510	30	1 metre	AC 166 ALCGS/515 100 H05Z1Z1 black	96286510	30
2 metres	AC 166 ALCGB/515 200 H05Z1Z1 black	96596520	20	2 metres	AC 166 ALCGS/515 200 H05Z1Z1 black	96286520	20
x metres	AC 166 ALCGB/515 x00 H05Z1Z1 black	965965x0		x metres	AC 166 ALCGS/515 x00 H05Z1Z1 black	962865x0	
Cable 2.5 mm² PVC (H05VV-F)				Cable 2.5 mm² PVC (H05VV-F)			
1 metre	AC 166 ALCGB/525 100 black	16628510	30	1 metre	AC 166 ALCGS/525 100 black	16318510	30
2 metres	AC 166 ALCGB/525 200 black	16628520	20	2 metres	AC 166 ALCGS/525 200 black	16318520	20
x metres	AC 166 ALCGB/525 x00 black	166285x0		x metres	AC 166 ALCGS/525 x00 black	163185x0	



AC 166[®] G 6 pole



Plugs and Sockets

Connection: 6 pole plug and socket connectors, consisting of two high type 3 pole plug and socket connectors screw
conductor size 0.5 - 2.5 mm²

Torque screw: M3: ⌀ max. 0.5 Nm

Stripping length: 7 mm

Important approvals: VDE, KEMA, UL

Accessories: strain reliefs (page 44), protective caps (page 31), latches, locking pins (page 53)

Upon request: with strain relief assembled

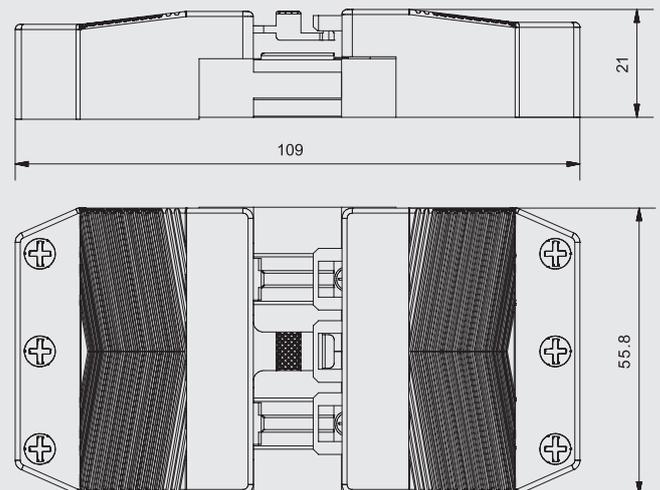
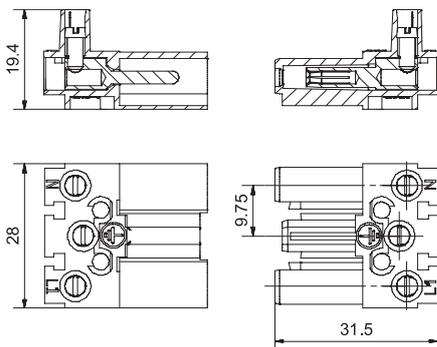
Strain Reliefs

Connection: cable outlet for one or two round conductors
Ø 8.5 - 11.0 mm

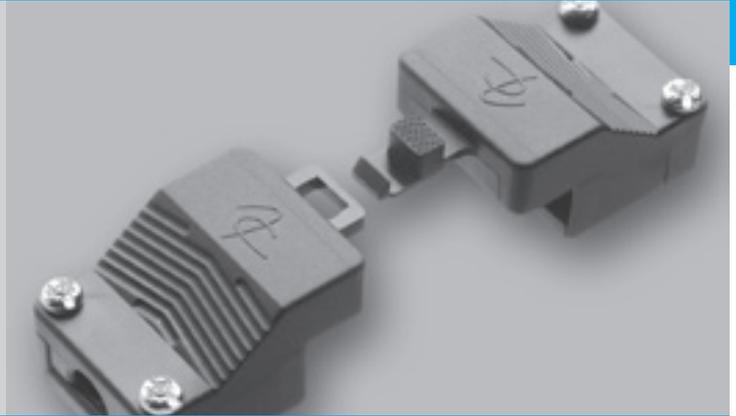
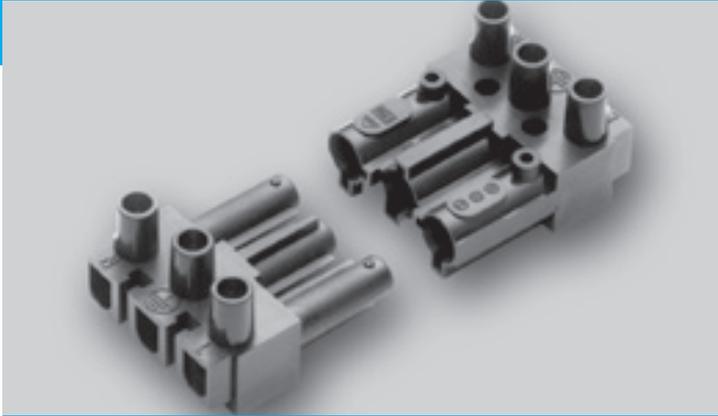
Torque screw: C2.9: ⌀ max. 0.5 Nm

Dismantling length: 33 mm (PE), 26 mm (L N) with 2 x 3 wire
50 mm (PE), 43 mm with 1 x 6 wire

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Plugs				without interlocking			
Coding 1 (L PE N)	AC 166 GST/ 3 white	162053	200		AC 166-1/ 6 ZEL R white	166056	200
	AC 166 GST/ 3 black	162063	200		AC 166-1/ 6 ZEL R black	166066	200
Coding 2 (L PE N)	AC 166 GST/ 3 pebble grey	162003	200	with hook for plugs	AC 166-1/ 6 ZEL RH white	166056H	200
Coding 5 (1 2 3) DALI	AC 166 GST/ 3 pastel blue	162043	200		AC 166-1/ 6 ZEL RH black	166066H	200
Sockets				with eye for sockets			
Coding 1 (N PE L)	AC 166 GBU/ 3 white	165053	200		AC 166-1/ 6 ZEL RO white	1660560	200
	AC 166 GBU/ 3 black	165063	200		AC 166-1/ 6 ZEL RO black	1660660	200
Coding 2 (N PE L)	AC 166 GBU/ 3 pebble grey	165003	200				
Coding 5 (3 2 1)	AC 166 GBU/ 3 pastel blue	165043	200				



AC 166[®] Classic 3 pole



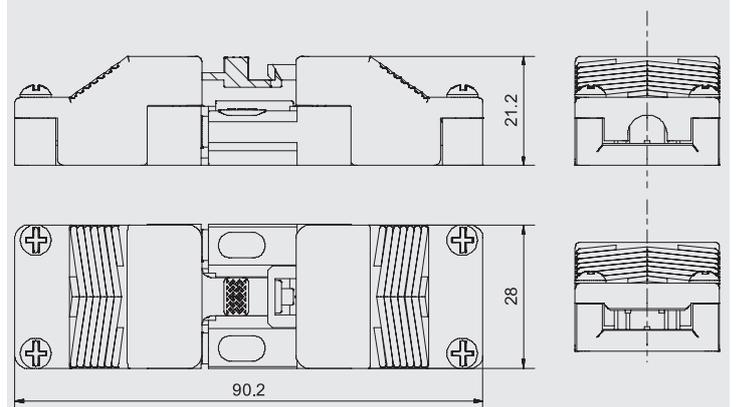
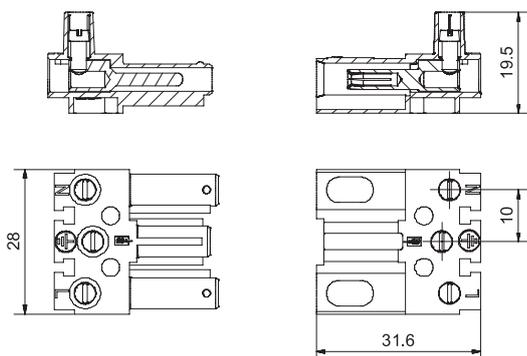
Plugs and Sockets

Connection: screw
 conductor size 0.5 - 2.5 mm²
Torque screw: M3: \varnothing max. 0.5 Nm
Stripping length: 7 mm
Important approvals: VDE, UL
Accessories: strain reliefs (page 23, 45), connecting links (page 48), protective caps (page 31), latches (page 53),
Upon request: with strain relief assembled

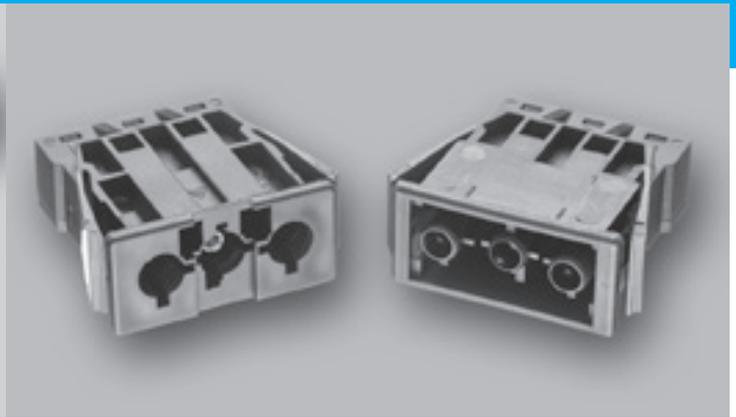
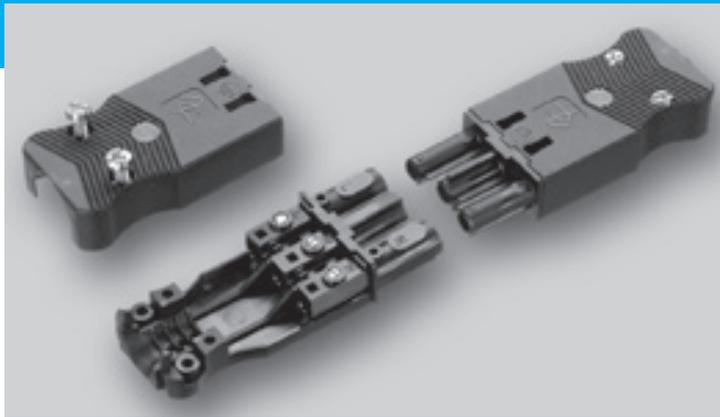
Strain Reliefs

Connection: cable outlet
 type "R": round conductor \varnothing 6.5 - 8.3 mm
 type "F": 2 round conductors up to \varnothing 4.5 mm
 type "F": flat conductor up to 4.5 mm
Torque screw: C2.9: \varnothing max. 0.5 Nm
Dismantling length: 33 mm (PE), 26 mm (L N)

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Plugs	AC 166-1 ST/ 3 white	160053	200	Type "R"			
	AC 166-1 ST/ 3 black	160063	200	without interlocking	AC 166-1/ 3 ZEL R white	166053	200
Sockets	AC 166-1 BU/ 3 white	163053	200		AC 166-1/ 3 ZEL R black	166063	200
	AC 166-1 BU/ 3 black	163063	200	with hook for plugs	AC 166-1/ 3 ZEL RH white	166053H	200
					AC 166-1/ 3 ZEL RH black	166063H	200
				with eye for sockets	AC 166-1/ 3 ZEL RO white	1660530	200
					AC 166-1/ 3 ZEL RO black	1660630	200
				for latches	AC 166-1/ 3 ZEL RV white	166053V	200
					AC 166-1/ 3 ZEL RV black	166063V	200
				Type "F"			
				without interlocking	AC 166-1/ 3 ZEL F white	166153	200
					AC 166-1/ 3 ZEL F black	166163	200
				with hook for plugs	AC 166-1/ 3 ZEL FH white	166153H	200
					AC 166-1/ 3 ZEL FH black	166163H	200
				with eye for sockets	AC 166-1/ 3 ZEL FO white	1661530	200
					AC 166-1/ 3 ZEL FO black	1661630	200
				for latches	AC 166-1/ 3 ZEL FV white	166153V	200
					AC 166-1/ 3 ZEL FV black	166163V	200



AC 166[®] Classic 3 pole



Plugs and Sockets, flat

Connection: screw
 conductor size 0.5 - 2.5 mm²
 cable outlet
 3 x 1.5 mm²: 7.5 - 8.5 mm

Torque screw: M3: ⚙ max. 0.3 Nm (conductor)
 C2.9: ⚙ max. 0.5 Nm (strain relief)

Stripping length: 7 mm
 Dismantling length: 39 mm (PE), 32 mm (L N)

Important approvals: VDE, KEMA, UL

Accessories: protective caps (page 31), connecting links (page 48), latches (page 53)

Upon request: connectors for 0.5 mm², 0.75 mm², 1.0 mm², 2.5 mm² and 4.0 mm², different housing screws

Built-in Plugs and Built-in Sockets

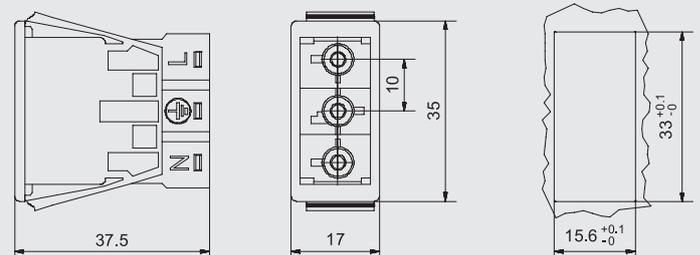
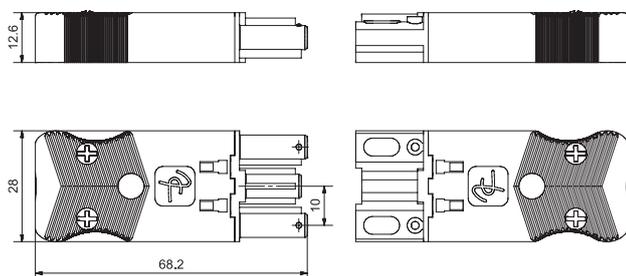
Connection: clamping spring contacts, 2 clamping units per pole
 conductor size 0.5 - 2.5 mm²
 solid or flexible, sealed
 conductor size 0.5 - 1.5 mm²
 flexible with ferrules

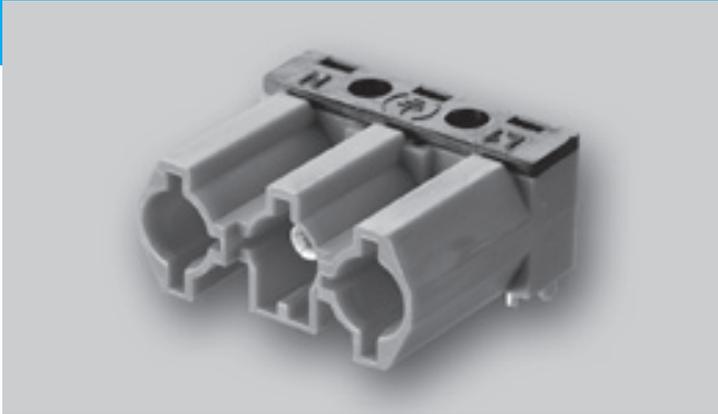
Wall thickness housing: 0.5 - 1.2 mm
 Stripping length: 8 - 9 mm

Important approvals: VDE, UL

Accessories: protective caps (page 31), latches (page 53), connecting links (page 48)

Description	Item	Order Number	PU	Description	Item	Order Number	PU	
Plugs	AC 166 STF/ 315 white	161053	200	Plugs without latches	AC 166 EST/ 3 white	168553	200	
	AC 166 STF/ 315 black	161063	200		AC 166 EST/ 3 black	168563	200	
Sockets	AC 166 BUF/ 315 white	164053	200	with latches	AC 166 EST/ 3 white with VSE	168553V	200	
	AC 166 BUF/ 315 black	164063	200		AC 166 EST/ 3 black with VSE	168563V	200	
				Sockets	without latches	AC 166 EBU/ 3 white	168653	200
						AC 166 EBU/ 3 black	168663	200
				with latches	AC 166 EBU/ 3 white with VSE	168653V	200	
						AC 166 EBU/ 3 black with VSE	168663V	200
				Latches, separately	AC 166 VSE white	169453	100	
						AC 166 VSE black	169463	100

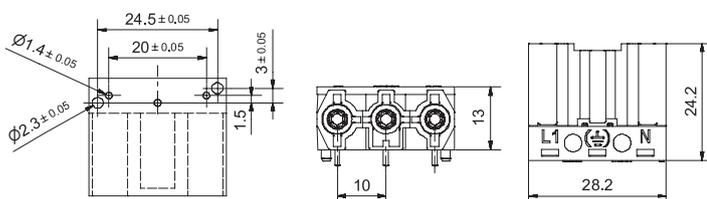




Sockets with Solder Terminals

Connection: horizontal/rectangular connection to pc-board
 Length solder pin: 3.3 mm
 Eyelet/mounting hole: \varnothing 1.4 mm
 Accessories: latches (page 53)
 Upon request: "180°"-version

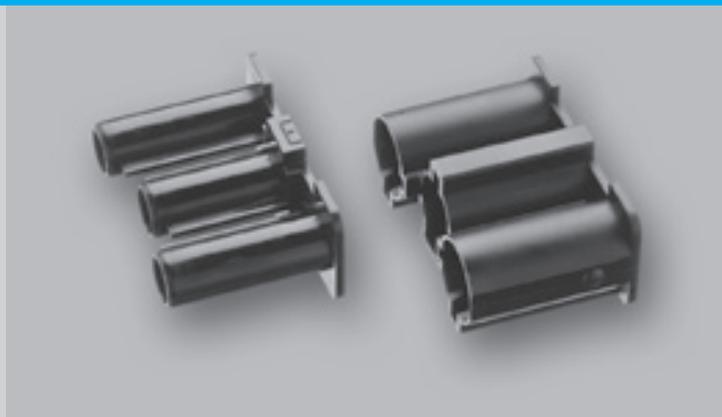
Description	Item	Order Number	PU
Sockets horizontal, without Latches			
combinable coding (L1 PE N)	AC 166-1 BULH/ 3 coral red	1636X3	500
Sockets horizontal, with Latches			
combinable coding (L1 PE N)	AC 166-1 BULH/ 3 coral red with VSL	1636X3V	500



AC 166[®] Classic 3 pole

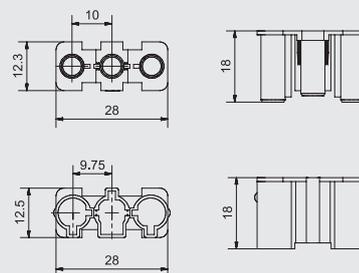
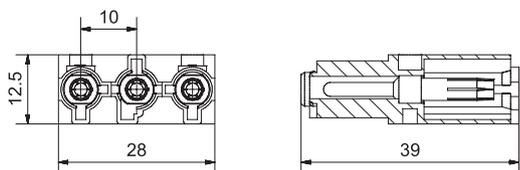


Connecting Links

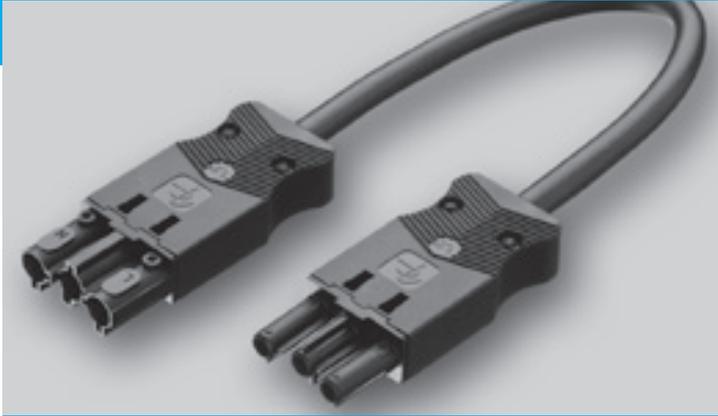


Protective Caps

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Coding 1	AC 166 KU/ 3 white	166953	200	for plugs	AC 166 VKH/ 3 white	169253	100
	AC 166 KU/ 3 black	166963	200		AC 166 VKH/ 3 black	169263	100
				for sockets	AC 166 VKE/ 3 white	169153	100
					AC 166 VKE/ 3 black	169163	100



AC 166[®] Classic 3 pole



Extension Cables

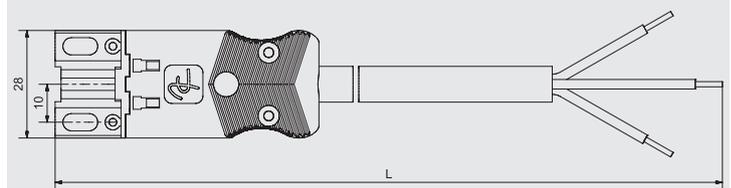
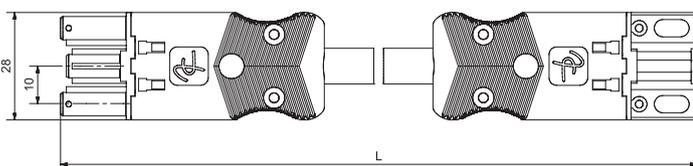
Important approvals: VDE, KEMA
 Accessories: connecting links (page 48), protective caps (page 31), latches (page 53)
 Upon request: different cables



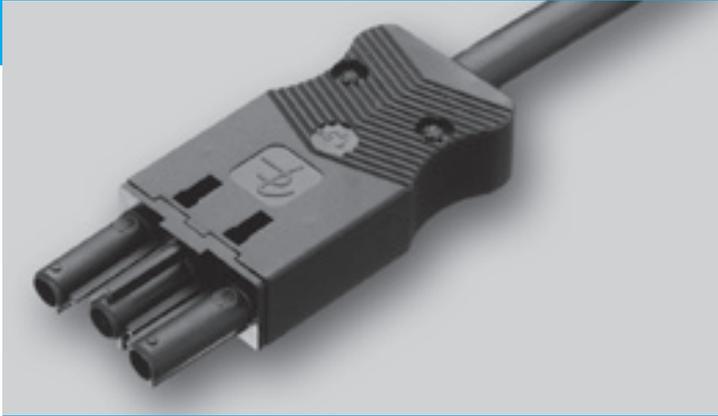
Connecting Cables with Socket

Stripping length: 9 mm
 Dismantling length: 39 mm (PE), 32 mm (L N)
 Important approvals: VDE, KEMA
 Accessories: connecting links (page 48), protective caps (page 31), latches (page 53)
 Upon request: different cables, wire ends with ferrules, different stripping / dismantling lengths

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Cable 1.5 mm² PVC (H05VV-F)				Cable 1.5 mm² PVC (H05VV-F)			
1 metre	AC 166 VLC/315 100 white	16175310	75	1 metre	AC 166 ALCB/315 100 white	16435310	75
	AC 166 VLC/315 100 black	16176310	75		AC 166 ALCB/315 100 black	16436310	75
2 metres	AC 166 VLC/315 200 white	16175320	50	2 metres	AC 166 ALCB/315 200 white	16435320	50
	AC 166 VLC/315 200 black	16176320	50		AC 166 ALCB/315 200 black	16436320	50
x metres	AC 166 VLC/315 x00 white	161753x0		x metres	AC 166 ALCB/315 x00 white	164353x0	
	AC 166 VLC/315 x00 black	161763x0			AC 166 ALCB/315 x00 black	164363x0	



AC 166[®] Classic 3 pole



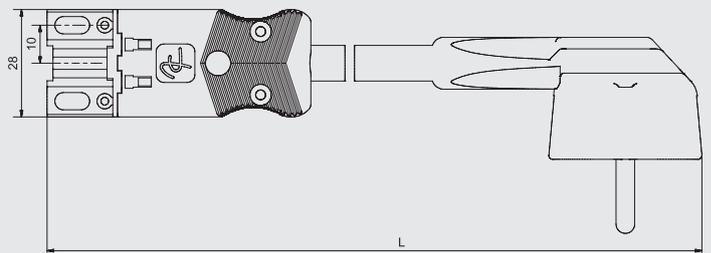
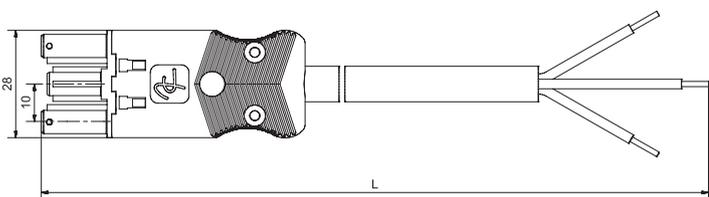
Connecting Cables with Plug

Stripping length: 9 mm
 Dismantling length: 39 mm (PE), 32 mm (L N)
 Important approvals: VDE, KEMA
 Accessories: connecting links (page 48), protective caps (page 31), latches (page 53)
 Upon request: different cables, wire ends with ferrules, different stripping / dismantling lengths

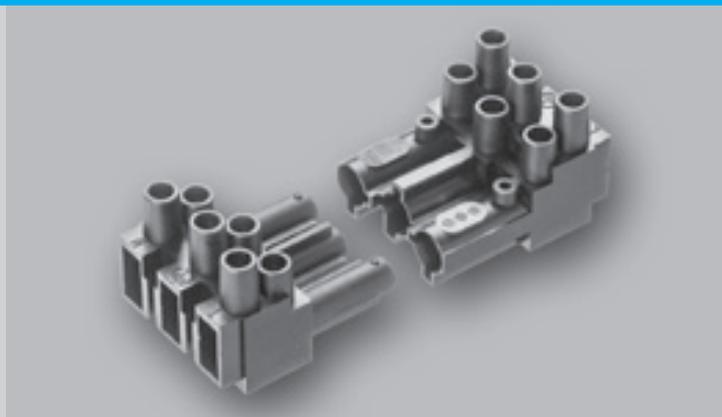
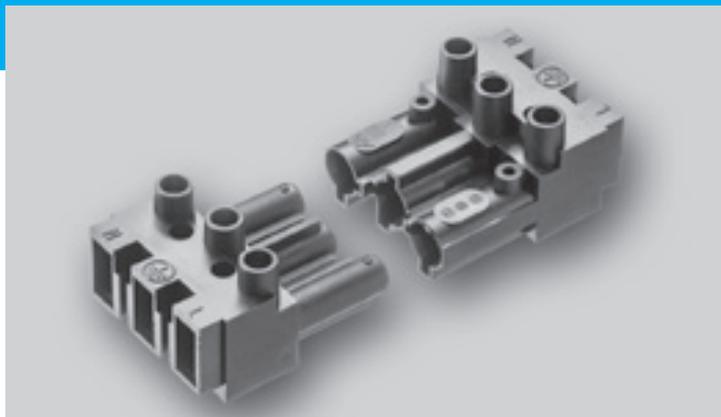
Mains Cables with Socket

Accessories: connecting link (page 48), protective caps (page 31), latches (page 53)
 Upon request: straight earthing type plug, cable size 2.5 mm², halogen-free cables

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Cable 1.5 mm² PVC (H05VV-F)				Cable 1,5 mm² PVC (H05VV-F) with rectangular Earthing Type Plug			
1 metre	AC 166 ALCS/315 100 white	16135310	75	1 metre	AC 166 NLCB/315 100 white	97565310	75
	AC 166 ALCS/315 100 black	16136310	75		AC 166 NLCB/315 100 black	97566310	75
2 metres	AC 166 ALCS/315 200 white	16135320	50	2 metres	AC 166 NLCB/315 200 white	97565320	50
	AC 166 ALCS/315 200 black	16136320	50		AC 166 NLCB/315 200 black	97566320	50
x metres	AC 166 ALCS/315 x00 white	161353x0		x metres	AC 166 NLCB/315 x00 white	975653x0	
	AC 166 ALCS/315 x00 black	161363x0			AC 166 NLCB/315 x00 black	975663x0	



AC 166®-A Classic 2 - 5 pole



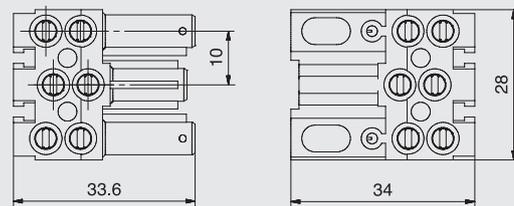
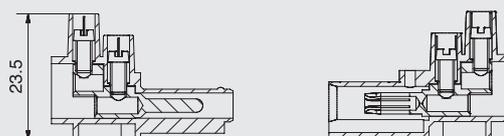
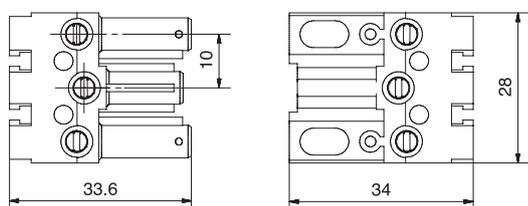
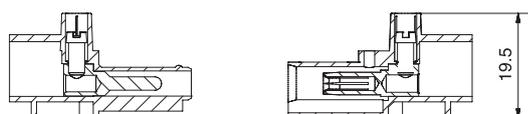
Plugs and Sockets

Connection: screw
 conductor size 0.5 - 2.5 mm²
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 7 mm
Important approvals: VDE, UL
Accessories: strain reliefs (page 52), connecting links (page 48), protective caps (page 31)
Upon request: with strain relief assembled

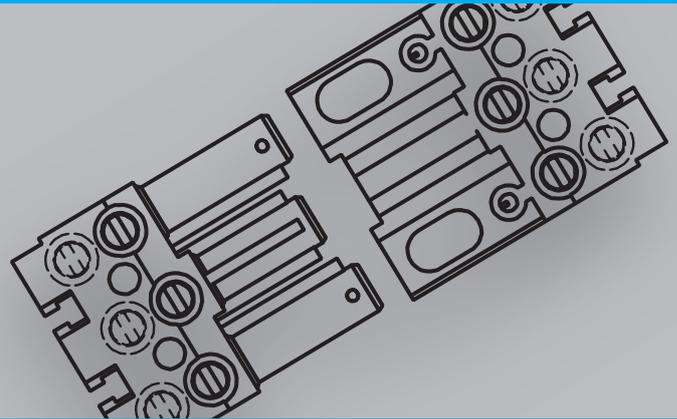
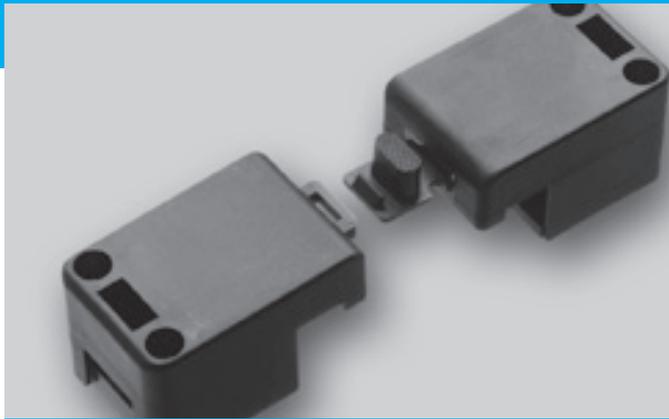
Plugs and Sockets

Connection: double connection
 two screws per pole
 conductor size 0.5 - 2.5 mm²
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 7 mm
Important approvals: VDE, UL
Accessories: strain reliefs (page 52), connecting links (page 48), protective caps (page 31)
Upon request: with strain relief assembled

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Plugs				Plugs			
2 pole	AC 166-A ST/ 2 white	160352	250	2 pole	AC 166-A STD/ 2 white	160552	250
	AC 166-A ST/ 2 black	160362	250		AC 166-A STD/ 2 black	160562	250
3 pole	AC 166-A ST/ 3 white	160353	200	3 pole	AC 166-A STD/ 3 white	160553	200
	AC 166-A ST/ 3 black	160363	200		AC 166-A STD/ 3 black	160563	200
4 pole	AC 166-A ST/ 4 white	160354	150	4 pole	AC 166-A STD/ 4 white	160554	150
	AC 166-A ST/ 4 black	160364	150		AC 166-A STD/ 4 black	160564	150
5 pole	AC 166-A ST/ 5 white	160355	100	5 pole	AC 166-A STD/ 5 white	160555	100
	AC 166-A ST/ 5 black	160365	100		AC 166-A STD/ 5 black	160565	100
Sockets				Sockets			
2 pole	AC 166-A BU/ 2 white	163352	250	2 pole	AC 166-A BUD/ 2 white	163552	250
	AC 166-A BU/ 2 black	163362	250		AC 166-A BUD/ 2 black	163562	250
3 pole	AC 166-A BU/ 3 white	163353	200	3 pole	AC 166-A BUD/ 3 white	163553	200
	AC 166-A BU/ 3 black	163363	200		AC 166-A BUD/ 3 black	163563	200
4 pole	AC 166-A BU/ 4 white	163354	150	4 pole	AC 166-A BUD/ 4 white	163554	150
	AC 166-A BU/ 4 black	163364	150		AC 166-A BUD/ 4 black	163564	150
5 pole	AC 166-A BU/ 5 white	163355	100	5 pole	AC 166-A BUD/ 5 white	163555	100
	AC 166-A BU/ 5 black	163365	100		AC 166-A BUD/ 5 black	163565	100



AC 166[®]-A Classic 2 - 5 pole

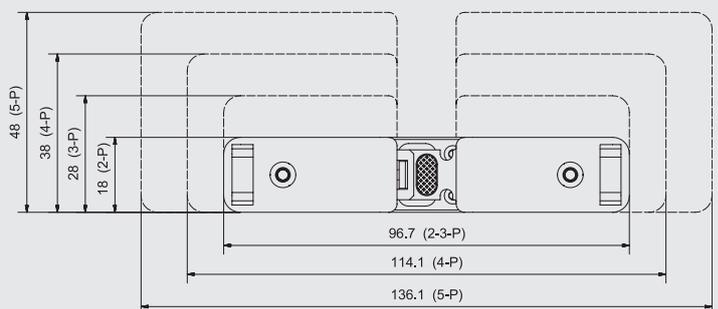
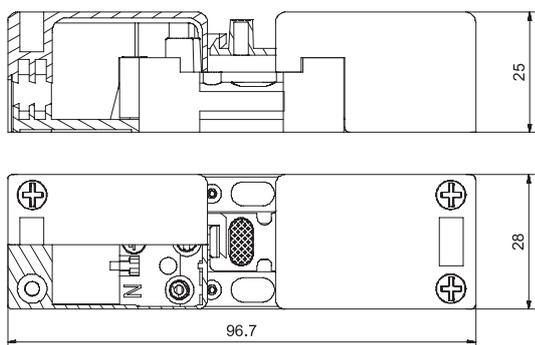
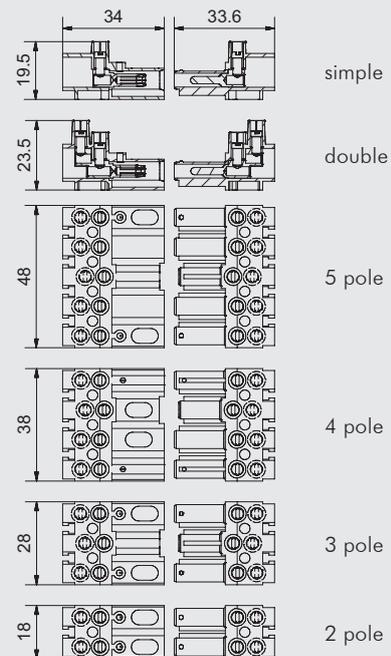


Strain Reliefs

- Connection: cable outlet for round conductors
 2 pole: Ø 5.5 - 7.5 mm
 3 pole: Ø 6.5 - 9.0 mm
 4 pole: Ø 7.5 - 10.5 mm
 5 pole: Ø 8.5 - 11.0 mm
- Torque screw: C2.9: ⤵ max. 0.5 Nm
- Dismantling length: 2 pole: 30 mm
 3 pole: 33 mm (PE), 26 mm (L N)
 4 pole: 42 mm (PE), 35 mm (1 N 2)
 5 pole: 52 mm (PE), 45 mm (1 2 N 3)

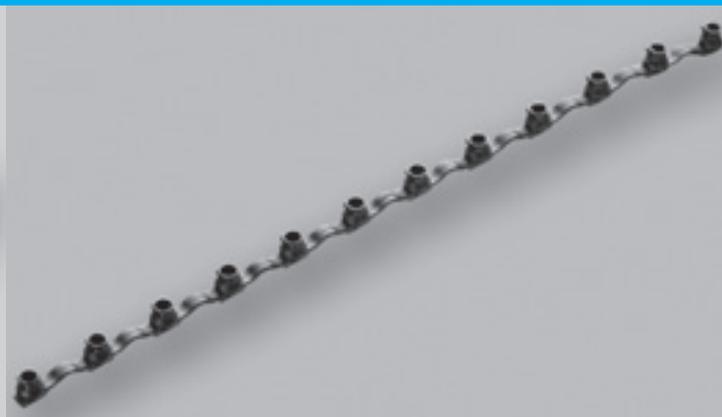
Dimensions

Description	Item	Order Number	PU
without Interlocking			
2 pole	AC 166-A ZEL/ 2 white	166652	250
	AC 166-A ZEL/ 2 black	166662	250
3 pole	AC 166-A ZEL/ 3 white	166653	200
	AC 166-A ZEL/ 3 black	166663	200
4 pole	AC 166-A ZEL/ 4 white	166654	150
	AC 166-A ZEL/ 4 black	166664	150
5 pole	AC 166-A ZEL/ 5 white	166655	100
	AC 166-A ZEL/ 5 black	166665	100
with moulded Hook for Plugs			
2 pole	AC 166-A ZEL/ 2 H white	166652H	250
	AC 166-A ZEL/ 2 H black	166662H	250
3 pole	AC 166-A ZEL/ 3 H white	166653H	200
	AC 166-A ZEL/ 3 H black	166663H	200
4 pole	AC 166-A ZEL/ 4 H white	166654H	150
	AC 166-A ZEL/ 4 H black	166664H	150
5 pole	AC 166-A ZEL/ 5 H white	166655H	100
	AC 166-A ZEL/ 5 H black	166665H	100
with Eye for Sockets			
2 pole	AC 166-A ZEL/ 2 O white	166652O	250
	AC 166-A ZEL/ 2 O black	166662O	250
3 pole	AC 166-A ZEL/ 3 O white	166653O	200
	AC 166-A ZEL/ 3 O black	166663O	200
4 pole	AC 166-A ZEL/ 4 O white	166654O	150
	AC 166-A ZEL/ 4 O black	166664O	150
5 pole	AC 166-A ZEL/ 5 O white	166655O	100
	AC 166-A ZEL/ 5 O black	166665O	100



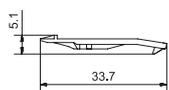


Latches

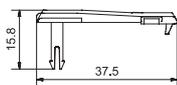


Locking Pins

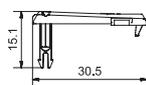
Description	Item	Order Number	PU	Description	Item	Order Number	PU
for built-in plugs and sockets	AC 166 VSE white	169453	100	locking pins, 12 pole	AC 166 VSS black	169863	10
	AC 166 VSE black	169463	100				
for flat plug and socket connectors	AC 166 VSF white	169553	100				
	AC 166 VSF black	169563	100				
for solder connectors	AC 166 VSL black	169564	1000				



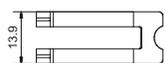
VSE



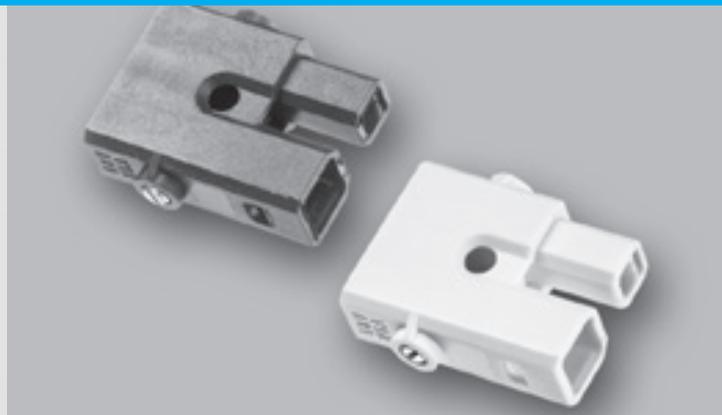
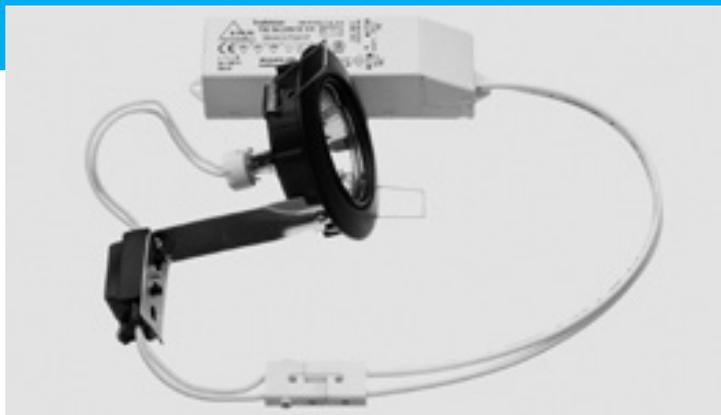
VSF



VSL



Low Voltage Connectors AC 162



Technical Information

Current Rating and Limit Temperature

25 A/48 V at T 70 °C
max: 110 °C

Plastic Material

polyamide 6/6
flammability rating to UL 94: V-0
continuous working temperature 100 °C, short-time temperature 160 °C

Metal

contacts: brass, silver-plated
clamping screws: steel, zinc plated, chromed

Cables

H07Z-K, halogen-free
double insulated, tinned strands
continuous working temperature 120 °C
flame resistant to UL 94: V-0

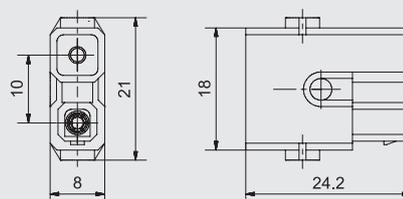
Protection Code

IP 20
IP 40 – when plugged-in

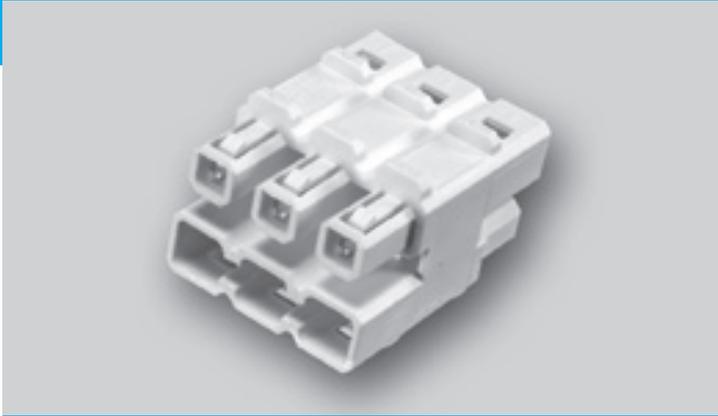
Plugs and Sockets Low Voltage

Connection: screw
conductor size 0.5 - 2.5 mm²
Torque screw: M3: ⌀ max. 0.3 Nm
Stripping length: 7 mm
Accessories: distributing blocks (page 55)

Description	Item	Order Number	PU
Plugs and sockets	AC 162 STS/2 white	140152	200
	AC 162 STS/2 black	140162	200

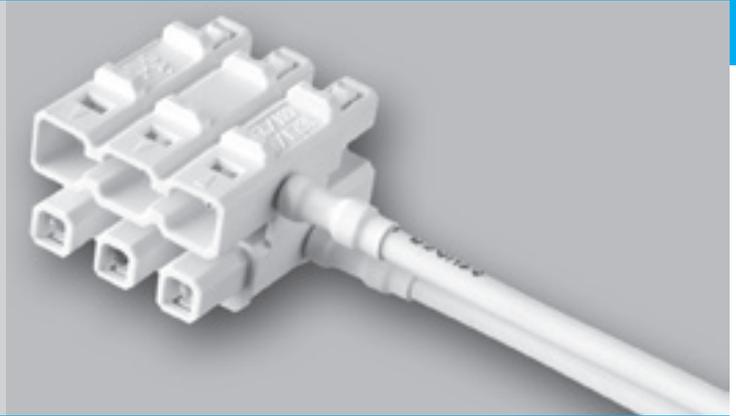


AC 162 Low Voltage



Compact Distributors Low Voltage

Connection: distributors 1 input, 5 output lines

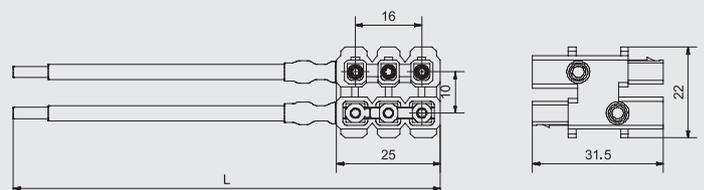
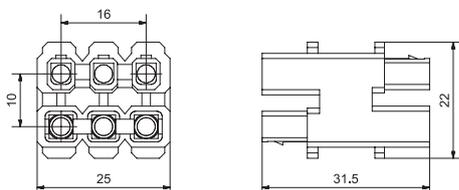


System Distributors Low Voltage

Connection: input with connecting cable 7.5 cm with ferrule and 6 output lines

Upon request: different cable lengths, different stripping / dismantling lengths

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Compact distributing blocks	AC 162 KV/ 6 white	140606	50	System distributors	AC 162 SV/ 6 white	140706	50

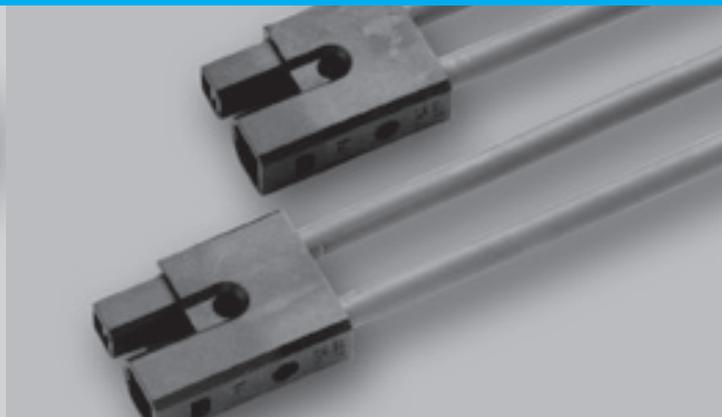


AC 162 Low Voltage



Extension Cables Low Voltage

Upon request: different cable lengths

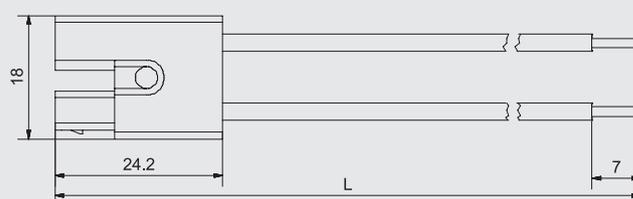
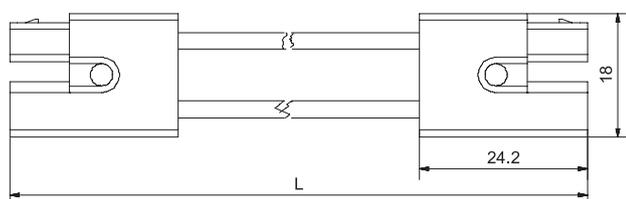


Connecting Cables Low Voltage

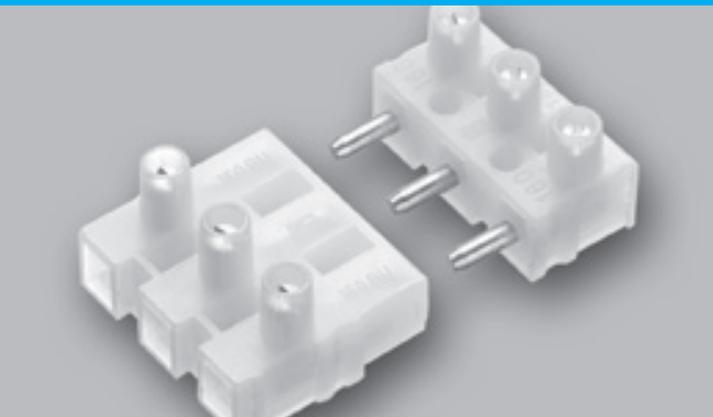
Stripping length: 7 mm

Upon request: different cable lengths, different stripping lengths

Description	Item	Order Number	PU	Description	Item	Order Number	PU
0.35 metres	AC 162 VLC 035 white	14235203	50	0.35 metres	AC 162 ALC 035 white	14135203	50
	AC 162 VLC 035 black (cables violet)	14236203	50		AC 162 ALC 035 black (cables violet)	14136203	50
1.20 metres	AC 162 VLC 120 white	14235212	50	1.20 metres	AC 162 ALC 120 white	14135212	50
	AC 162 VLC 120 black (cables violet)	14236212	50		AC 162 ALC 120 black (cables violet)	14136212	50



Plug and Socket Connectors 160/163



Technical Information

Plugs and Sockets 2 - 12 pole

Applicable Standards

EN 60320
 appliance couples for household and similar purposes
 EN 61984
 plug and socket devices – safety requirements and tests
 EN 60598
 luminaires – general requirements and tests
 EN 60335-1
 safety of household and similar electrical appliances

Current Rating and Limit Temperature

16 A/250 V/400 V at T 70 °C
 max: 110 °C

Plastic Material

polyamide 6 and polyamide 6/6
 flammability rating to UL 94: V-2
 continuous working temperature 100 °C, short-time temperature 160 °C

Metal

contacts: brass, plated
 clamping screws: steel, zinc plated, chromed
 wire protectors: spring steel

Protection Code

IP 20
 IP 40 – when plugged-in

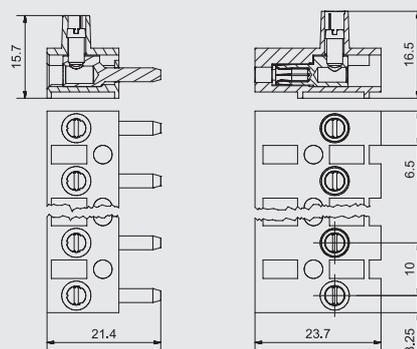
Important Approvals

For current approvals, please see the relative data sheets of each item on our website.

Approvals	Nominal Cross Section	Voltage Rating
	1.5/2.5 mm ²	250 V
	14 AWG	600 V
	14 AWG	600 V

Connection: screw
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 4.0 mm² (without wire protector)
 Torque screw: M3: ⚙ max. 0.5 Nm
 Stripping length: 6.5 - 7 mm
 Upon request: 4 - 11 pole, longer earthing plug, printing

Description	Item	Order Number	PU
Plugs with Wire Protector			
2 pole	160 ST/ 2 DS	150562	250
3 pole	160 ST/ 3 DS	150563	200
12 pole	160 ST/12 DS	150572	50
Sockets with Wire Protector			
2 pole	160 BU/ 2 DS	151562	250
3 pole	160 BU/ 3 DS	151563	200
12 pole	160 BU/12 DS	151572	50
Plugs without Wire Protector			
2 pole	160 ST/ 2	150462	250
3 pole	160 ST/ 3	150463	200
12 pole	160 ST/12	150472	50
Sockets without Wire Protector			
2 pole	160 BU/ 2	151462	250
3 pole	160 BU/ 3	151463	200
12 pole	160 BU/12	151472	50



Plug and Socket Connectors 160/163



Plugs and Sockets 2, 3 and 5 pole

Connection: screw
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 4.0 mm² (without wire protector)

Torque screw: M3: \cup max. 0.5 Nm

Stripping length: 6.5 - 7 mm

Accessories: strain reliefs (page 58)

Upon request: printing, different polyamides, different screws

Strain Reliefs 3 and 5 pole

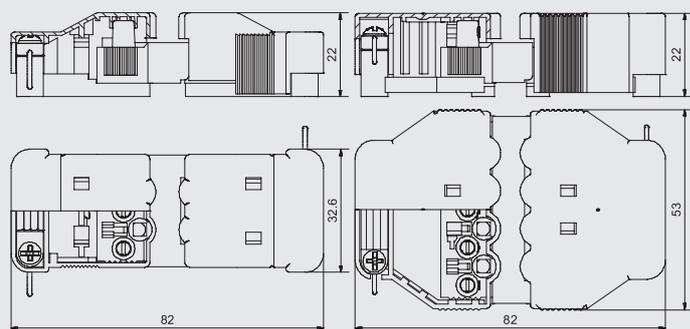
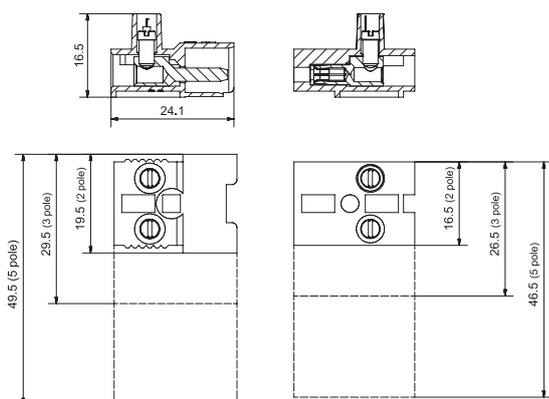
Connection: cable outlet
 for 3 pole conductors: \varnothing 6.0 - 8.5 mm
 for 5 pole conductors: \varnothing 7.6 - 9.8 mm

Torque screw: C3.5: \cup max. 0.5 Nm

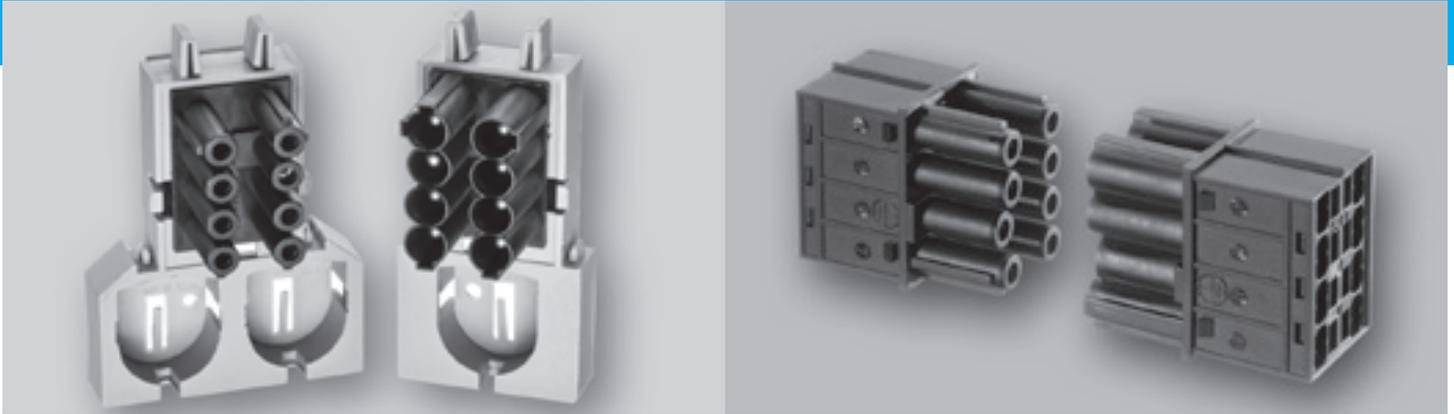
Dismantling length: 3 pole 33 mm
 5 pole 42 mm
 PE 7 mm longer

Description	Item	Order Number	PU
Plugs with Wire Protector			
2 pole	163 ST/ 2 DS	151182	250
3 pole	163 ST/ 3 DS	151183	200
5 pole	163 ST/ 5 DS	151185	500
Sockets with Wire Protector			
2 pole	160 BU/ 2 DSs	151582	250
3 pole	160 BU/ 3 DSs	151583	200
5 pole	160 BU/ 5 DSs	151585	500
Plugs without Wire Protector			
2 pole	163 ST/ 2	151082	250
3 pole	163 ST/ 3	151083	200
5 pole	163 ST/ 5	151085	500
Sockets without Wire Protector			
2 pole	160 BU/ 2s	151482	250
3 pole	160 BU/ 3s	151483	200
5 pole	160 BU/ 5s	151485	500

Description	Item	Order Number	PU
Strain Relief Bottom Parts			
3 pole	163/ 3 ZEL	192203	400
5 pole	163/ 5 ZEL	192205	500
Strain Relief Upper Parts			
3 pole	163/ 3 ABK	192303	400
5 pole	163/ 5 ABK	192305	500



Plug and Socket Connectors RIAC 8 pole



Technical Information

Current Rating and Limit Temperature

16 A/400 V at T 70 °C
max. 110 °C

Plastic Material

polyamide 6/6, black
flammability rating to UL 94: V-2
continuous working temperature 100 °C, short-time 160 °C

Metal

contacts: brass, plated
clamping springs: spring steel

Protection Code

IP 20
IP 40 – when plugged-in

Important Approvals

For current approvals, please see the relative data sheets of each item on our website.

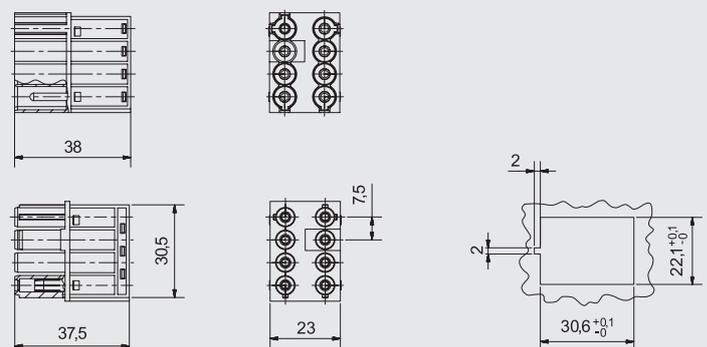
Approvals	Nominal Cross Section	Voltage Rating
	1.5/2.5 mm ²	250 V

Built-in Plugs and Built-in Sockets

Connection: clamping spring contacts, 2 clamping units per pole
conductor size 0.5 - 2.5 mm²
solid or flexible, sealed
conductor size 0.5 - 1.5 mm²
flexible with ferrules

Wall thickness housing: 0.5 - 1.0 mm
Stripping length: 8 - 9 mm

Description	Item	Order Number	PU
Plug-In plug 8 pole	RIAC ST/ 8	155608	150
Plug-In socket 8 pole	RIAC BU/ 8	155708	150



Luminaire Connectors/Block Connectors, LINECT®



Technical Information

Applicable Standards

EN 60998
connecting devices for low-voltage circuits
EN 60598
luminaires – general requirements and tests
EN 60335-1
safety of household and similar electrical appliances

Current Rating

To EN 60598: 16 A and EN 60998: 24 A at T 85 °C (LK 980: T 110 °C and LNCT 990: T 55 °C)

Plastic Material

polyamide 6.6 (LINECT®: polycarbonate)
flammability rating to UL 94: V-2
continuous working temperature 100 °C, short-time temperature 160 °C
glow-wire test to EN 60598: 960 °C (LK 980 only)

Metal

contacts: brass, copper, steel and spring steel, plated
clamping springs: steel, zinc plated, chromed
earth conductor: steel, tinned (SK), copper, zinc plated (ST), copper blank (SU),
copper, tinned (STW)

Important Approvals

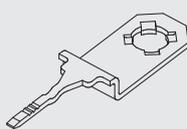
For current approvals, please see the relative data sheets of each item on our website.

Approvals	Nominal Cross Section	Voltage Rating
	0.5/2.5 mm ²	450 V
	20 – 14 AWG	300 V – 600 V

PE contacts for Luminaire Connectors LK 980

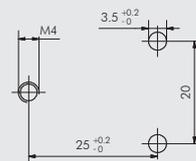
We recommend using printed connectors for all below alternatives.

PE-Contact

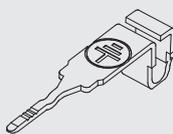
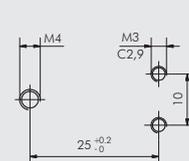


Screw Contact - SK

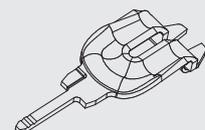
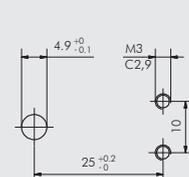
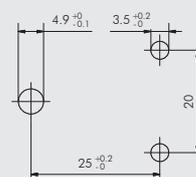
Hole Pattern
Catch Pin Fixing



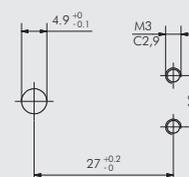
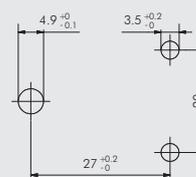
Hole Pattern
Screw Fixing



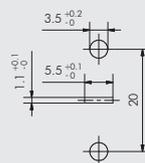
Contact Bow - ST



Contact Bow - STW



Contact Claw - SU



Luminaire Connectors



LK 980 2 pole

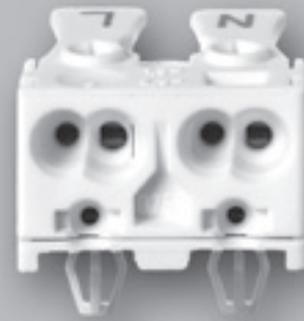
Connection: external
 2 x 0.5 - 2.5 mm² solid,
 2 x 0.75 - 2.5 mm² stranded,
 2 x 1.5 - 2.5 mm² flexible, sealed
 release by release key
 internal
 1 x 0.5 - 1.5 mm² and 1 x 0.5 - 2.5 mm² solid,
 1 x 0.75 - 1.5 mm² and 1 x 0.75 - 2.5 mm² stranded
 capacitor
 1 x 0.5 - 0.75 mm² solid

Fixing: by screw or rivet size Ø 2.9 - 3.0 mm

Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)

Important approvals: VDE, ENEC, UL

Upon request: different printing, different polyamides (in particular glow wire to EN 60335-1), release tool



LK 980 2 pole with Catch Pins

Connection: external
 2 x 0.5 - 2.5 mm² solid,
 2 x 0.75 - 2.5 mm² stranded,
 2 x 1.5 - 2.5 mm² flexible, sealed
 release by release key
 internal
 1 x 0.5 - 1.5 mm² and 1 x 0.5 - 2.5 mm² solid,
 1 x 0.75 - 1.5 mm² and 1 x 0.75 - 2.5 mm² stranded
 capacitor
 1 x 0.5 - 0.75 mm² solid

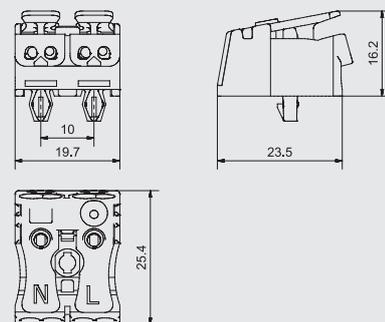
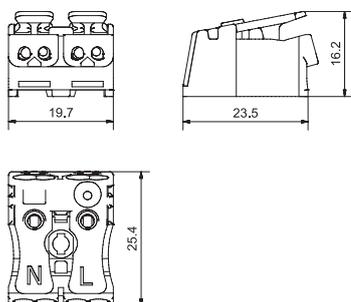
Fixing: into hole size Ø 3.5 mm for plates of
 0.475 - 1.2 mm thickness

Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)

Important approvals: VDE, ENEC, UL

Upon request: different printing, different polyamides (in particular glow wire to EN 60335-1), release tool

Description	Item	Order Number	PU	Description	Item	Order Number	PU
printed with N L	LK 980-01/ 2 B	041012	600	printed with N L	LK 980-01 RZ/ 2 B	045012	600
unprinted	LK 980-01/ 2	040012	600	unprinted	LK 980-01 RZ/ 2	044012	600



Luminaire Connectors



LK 980 3 pole

Connection: external
 2 x 0.5 - 2.5 mm² solid,
 2 x 0.75 - 2.5 mm² stranded,
 2 x 1.5 - 2.5 mm² flexible, sealed
 release by release key
 internal
 1 x 0.5 - 1.5 mm² and 1 x 0.5 - 2.5 mm² solid,
 1 x 0.75 - 1.5 mm² and 1 x 0.75 - 2.5 mm² stranded
 capacitor
 1 x 0.5 - 0.75 mm² solid

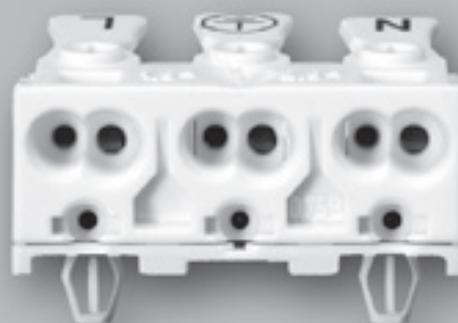
Fixing: by screw or rivet size Ø 2.9 - 3.0 mm

Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)

Important approvals: VDE, ENEC, UL

Accessories: strain reliefs (page 65)

Upon request: different printing, different polyamides (in particular glow wire to EN 60335-1), release tool



LK 980 3 pole with Catch Pins

Connection: external
 2 x 0.5 - 2.5 mm² solid,
 2 x 0.75 - 2.5 mm² stranded,
 2 x 1.5 - 2.5 mm² flexible, sealed
 release by release key
 internal
 1 x 0.5 - 1.5 mm² and 1 x 0.5 - 2.5 mm² solid,
 1 x 0.75 - 1.5 mm² and 1 x 0.75 - 2.5 mm² stranded
 capacitor
 1 x 0.5 - 0.75 mm² solid

Fixing: into hole size Ø 3.5 mm for plates of
 0.475 - 1.2 mm thickness

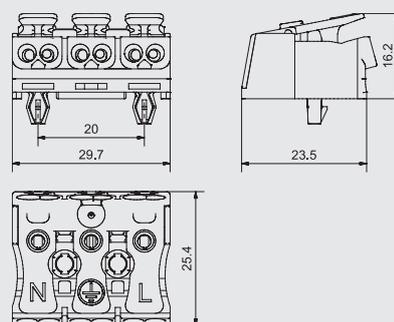
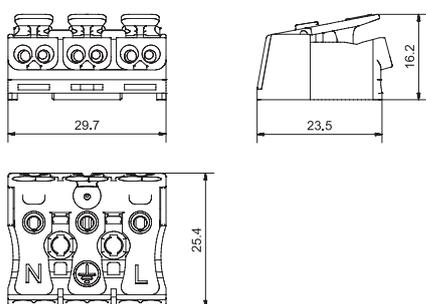
Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)

Important approvals: VDE, ENEC, UL

Accessories: strain reliefs (page 65)

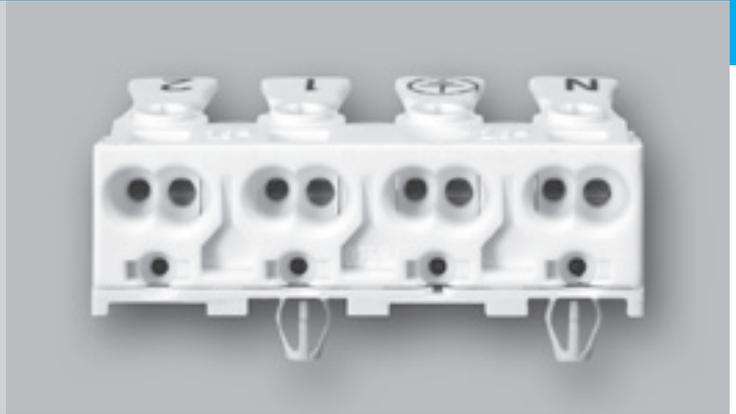
Upon request: different printing, different polyamides (in particular glow wire to EN 60335-1), release tool

Description	Item	Order Number	PU	Description	Item	Order Number	PU
printed with N PE L				printed with N PE L			
without PE contact	LK 980-01/ 3 B	041013	500	without PE contact	LK 980-01 RZ/ 3 B	045013	500
with PE contact by screw	LK 980-01/ 3 SK B	041213	500	with PE contact by screw	LK 980-01 RZ/ 3 SK B	045213	500
with PE bow	LK 980-01/ 3 ST B	041313	500	with PE bow	LK 980-01 RZ/ 3 ST B	045313	500
with angled PE-contact	LK 980-01/ 3 STW B	041413	500	with angled PE-contact	LK 980-01 RZ/ 3 STW B	045413	500
unprinted				unprinted			
without PE contact	LK 980-01/ 3	040013	500	without PE contact	LK 980-01 RZ/ 3	044013	500





LK 980 4 pole



LK 980 4 pole with Catch Pins

Connection: external
 2 x 0.5 - 2.5 mm² solid,
 2 x 0.75 - 2.5 mm² stranded,
 2 x 1.5 - 2.5 mm² flexible, sealed
 release by release key
 internal
 1 x 0.5 - 1.5 mm² and 1 x 0.5 - 2.5 mm² solid,
 1 x 0.75 - 1.5 mm² and 1 x 0.75 - 2.5 mm² stranded
 capacitor
 1 x 0.5 - 0.75 mm² solid

Fixing: by screw or rivet size Ø 2.9 - 3.0 mm

Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)

Important approvals: VDE, ENEC, UL

Accessories: strain reliefs (page 65)

Upon request: different printing, different polyamides (in particular glow wire to EN 60335-1), release tool

Connection: external
 2 x 0.5 - 2.5 mm² solid,
 2 x 0.75 - 2.5 mm² stranded,
 2 x 1.5 - 2.5 mm² flexible, sealed
 release by release key
 internal
 1 x 0.5 - 1.5 mm² and 1 x 0.5 - 2.5 mm² solid,
 1 x 0.75 - 1.5 mm² and 1 x 0.75 - 2.5 mm² stranded
 capacitor
 1 x 0.5 - 0.75 mm² solid

Fixing: into hole size Ø 3.5 mm for plates of
 0.475 - 1.2 mm thickness

Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)

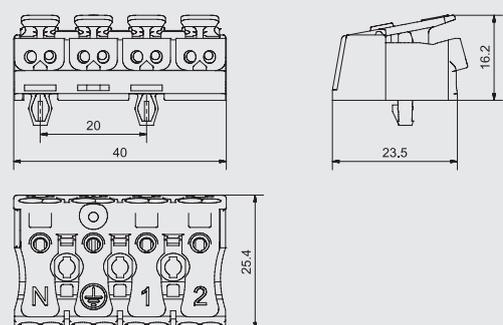
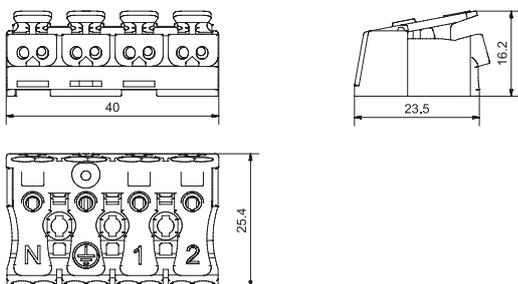
Important approvals: VDE, ENEC, UL

Accessories: strain reliefs (page 65)

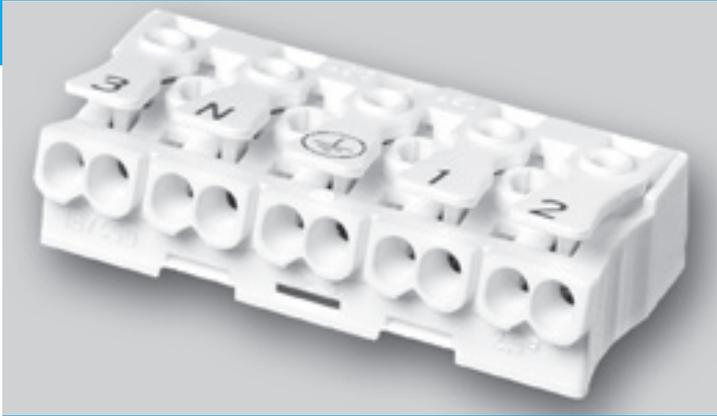
Upon request: different printing, different polyamides (in particular glow wire to EN 60335-1), release tool

Description	Item	Order Number	PU
printed with N PE 1 2			
without PE contact	LK 980-01/ 4 B	041014	600
with PE contact by screw	LK 980-01/ 4 SK B	041214	600
with PE bow	LK 980-01/ 4 ST B	041314	600
with angled PE-contact	LK 980-01/ 4 STW B	041414	600
unprinted			
without PE contact	LK 980-01/ 4	040014	600

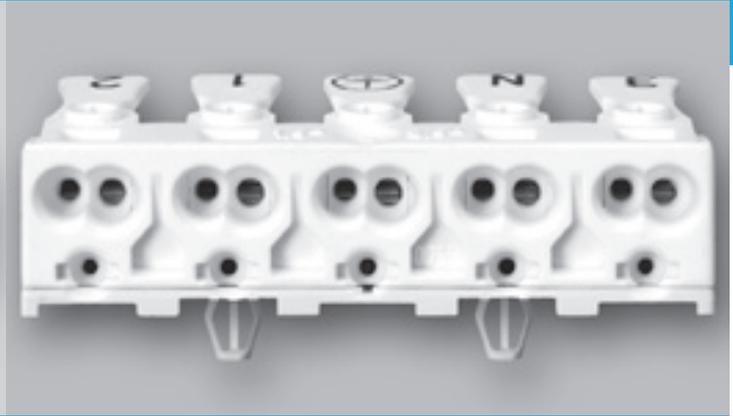
Description	Item	Order Number	PU
printed with N PE 1 2			
without PE contact	LK 980-01 RZ/ 4 B	045014	600
with PE contact by screw	LK 980-01 RZ/ 4 SK B	045214	600
with PE bow	LK 980-01 RZ/ 4 ST B	045314	600
with angled PE-contact	LK 980-01 RZ/ 4 STW B	045414	600
with PE claw	LK 980-01 RZ/ 4 SU B	045614	600
unprinted			
without PE contact	LK 980-01 RZ/ 4	044014	600



Luminaire Connectors



LK 980 5 pole



LK 980 5 pole with Catch Pins

Connection: external
 2 x 0.5 - 2.5 mm² solid,
 2 x 0.75 - 2.5 mm² stranded,
 2 x 1.5 - 2.5 mm² flexible, sealed
 release by release key
 internal
 1 x 0.5 - 1.5 mm² and 1 x 0.5 - 2.5 mm² solid,
 1 x 0.75 - 1.5 mm² and 1 x 0.75 - 2.5 mm² stranded
 capacitor
 1 x 0.5 - 0.75 mm² solid

Fixing: by screw or rivet size Ø 2.9 - 3.0 mm

Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)

Important approvals: VDE, ENEC, UL

Accessories: strain reliefs (page 65)

Upon request: different printing (e.g. for DALI), different polyamides (in particular glow wire to EN 60335-1), release tool

Connection: external
 2 x 0.5 - 2.5 mm² solid,
 2 x 0.75 - 2.5 mm² stranded,
 2 x 1.5 - 2.5 mm² flexible, sealed
 release by release key
 internal
 1 x 0.5 - 1.5 mm² and 1 x 0.5 - 2.5 mm² solid,
 1 x 0.75 - 1.5 mm² and 1 x 0.75 - 2.5 mm² stranded
 capacitor
 1 x 0.5 - 0.75 mm² solid

Fixing: into hole size Ø 3.5 mm for plates of
 0.475 - 1.2 mm thickness

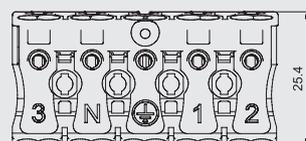
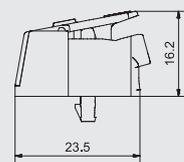
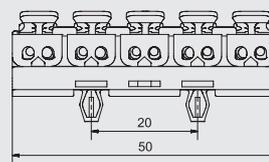
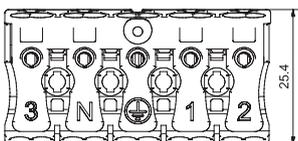
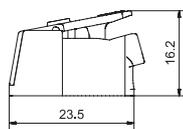
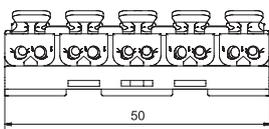
Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)

Important approvals: VDE, ENEC, UL

Accessories: strain reliefs (page 65)

Upon request: different printing, different polyamides (in particular glow wire to EN 60335-1), release tool

Description	Item	Order Number	PU	Description	Item	Order Number	PU
printed with 3 N PE 1 2				printed with 3 N PE 1 2			
without PE contact	LK 980-01/ 5 B	041015	500	without PE contact	LK 980-01 RZ/ 5 B	045015	500
with PE contact by screw	LK 980-01/ 5 SK B	041215	500	with PE contact by screw	LK 980-01 RZ/ 5 SK B	045215	500
with PE bow	LK 980-01/ 5 ST B	041315	500	with PE bow	LK 980-01 RZ/ 5 ST B	045315	500
with angled PE-contact	LK 980-01/ 5 STW B	041415	500	with angled PE-contact	LK 980-01 RZ/ 5 STW B	045415	500
unprinted				unprinted			
without PE contact	LK 980-01/ 5	040015	500	without PE contact	LK 980-01 RZ/ 5	044015	500

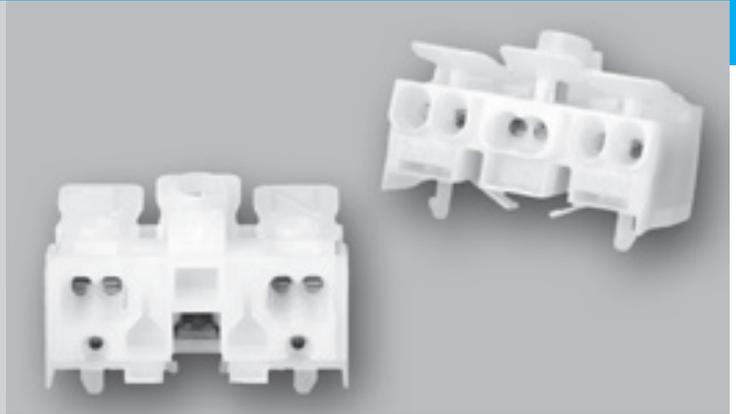


Luminaire Connectors



Strain Reliefs for LK 980/LINECT®

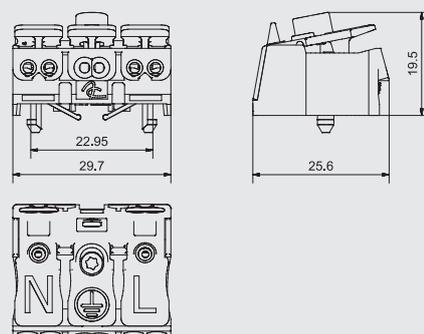
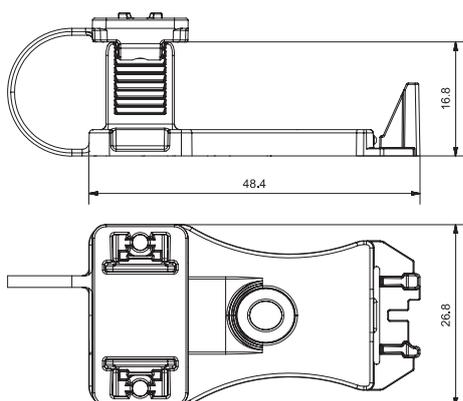
Connection: cables \varnothing 5.0 - 12.0 mm
 releasable by pressing the catch springs to the side
 Fixing: to connector and/or screw M4
 Upon request: strain relief with catch pins (ZEL 980)

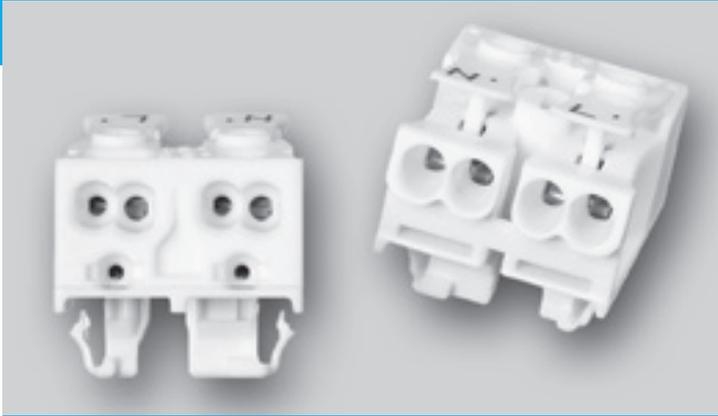


LK 960 RZ 3 pole

Connection: external
 2 x 0.5 - 2.5 mm² solid
 release by release key
 internal
 1 x 0.5 - 2.5 mm² solid
 1 x 0.5 - 1.5 mm² solid
 capacitor
 1 x 0.5 - 0.75 mm² solid
 Fixing: by catch pins into hole size \varnothing 3.5 mm for plates of
 0.475 - 1.2 mm thickness
 Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)
 Important approvals: VDE, ENEC
 Accessories: strain reliefs (page 86)

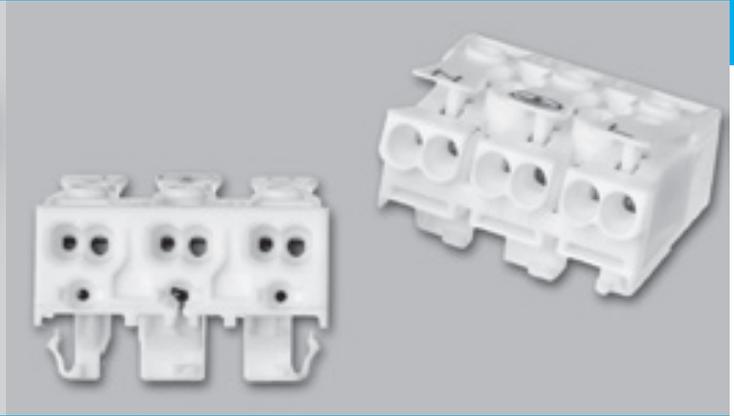
Description	Item	Order Number	PU	Description	Item	Order Number	PU
Fixing by screw	ZEL 900	196423	500	with engraving N PE L	LK 960 RZ/ 3	024313	400





Connectors LNCT 990 2 pole

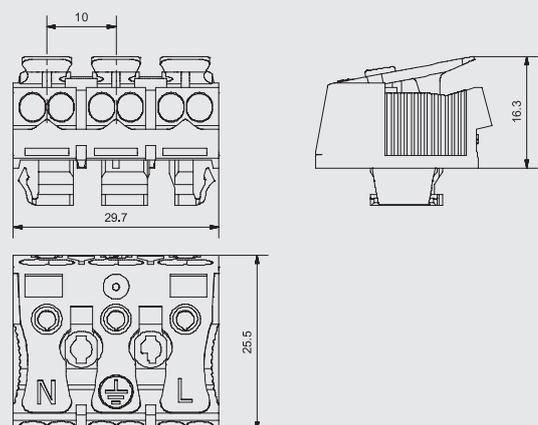
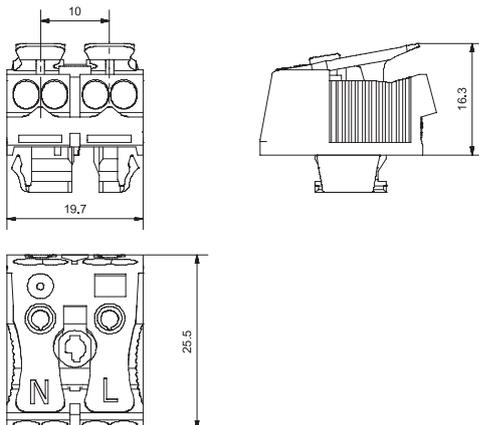
Connection: external
 2 x 0.5 - 2.5 mm² solid
 2 x 0,75 - 2,5 mm² stranded
 2 x 1.5 - 2.5 mm² flexible
 release by release key
 internal
 1 x 0.5 - 2.5 mm² solid
 1 x 0.5 - 1.5 mm² solid capacitor
 1 x 0.5 - 0.75 mm² solid
Fixing: by catch pins and coding profiles for plates of 0.4 - 1.0 mm thickness
Stripping length: 0.5 - 1.0 mm²: 8 - 9 mm
 1.5 - 2.5 mm²: 9 - 10 mm
Important approvals: VDE, ENEC
Upon request: strain reliefs, release tool

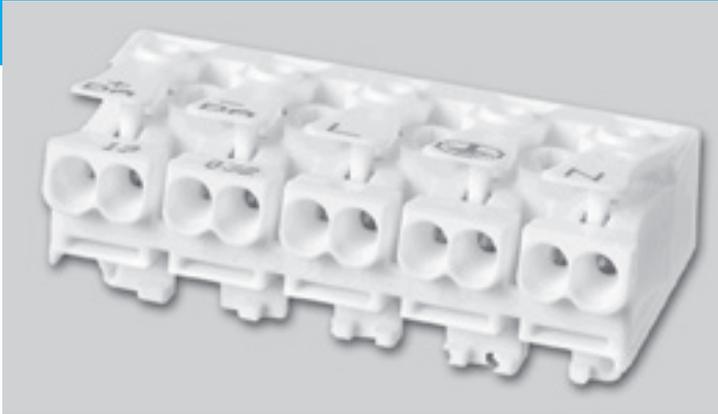


Connectors LNCT 990 3 pole

Connection: external
 2 x 0.5 - 2.5 mm² solid
 2 x 0,75 - 2,5 mm² stranded
 2 x 1.5 - 2.5 mm² flexible
 release by release key
 internal
 1 x 0.5 - 2.5 mm² solid
 1 x 0.5 - 1.5 mm² solid capacitor
 1 x 0.5 - 0.75 mm² solid
Fixing: by catch pins and coding profiles for plates of 0.4 - 1.0 mm thickness
Stripping length: 0.5 - 1.0 mm²: 8 - 9 mm
 1.5 - 2.5 mm²: 9 - 10 mm
Important approvals: VDE, ENEC
Upon request: strain reliefs, release tool

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Coding "EMERGENCY" printed with N' L'				Coding "MAINS" printed with N PE L			
	LNCT 990/ 2 EMER	054052	1000	with PE contact by screw	LNCT 990/ 3 SK	051253	750
				with PE claw	LNCT 990/ 3 SU	051653	750





Connectors LNCT 990 5 pole

Connection: external
 2 x 0.5 - 2.5 mm² solid
 2 x 0,75 - 2,5 mm² stranded
 2 x 1.5 - 2.5 mm² flexible
 release by release key
 internal
 1 x 0.5 - 2.5 mm² solid
 1 x 0.5 - 1.5 mm² solid
 capacitor
 1 x 0.5 - 0.75 mm² solid

Fixing: by catch pins and coding profiles for plates of 0.4 - 1.0 mm thickness

Stripping length: 0.5 - 1.0 mm²: 8 - 9 mm
 1.5 - 2.5 mm²: 9 - 10 mm

Important approvals: VDE, ENEC
 Upon request: strain reliefs, release tool



Compact Unit for Luminaires LCS 45

Connection: external
 2 x 0.5 - 2.5 mm² solid
 internal
 2 x 0.5 - 2.5 mm² solid

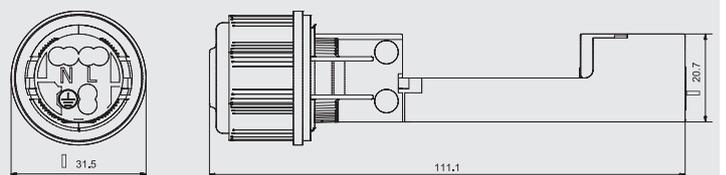
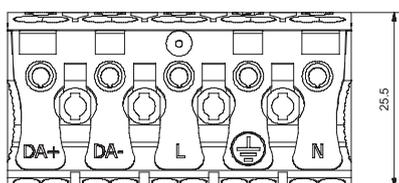
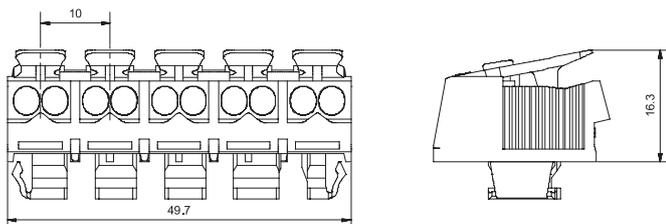
Fixing: to luminaires housings (hole diameter 21.0 mm) of 1.0 - 4.0 mm wall thickness

Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²)
 Dismantling length: 40 mm



Here is our application video:

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Coding "MAINS + DALI" printed with DA + DA-L PE N				3 pole	LCS 45	525203	750
with PE contact by screw	LNCT 990/ 5 DALI SK	053255	450				
with PE claw	LNCT 990/ 5 DALI SU	053655	450				
Coding "MAINS + EMERGENCY" printed with L' N' L PE N							
with PE contact by screw	LNCT 990/ 5 EMER SK	054255	450				
with PE claw	LNCT 990/ 5 EMER SU	054655	450				



Block Connectors



Block Connectors 930

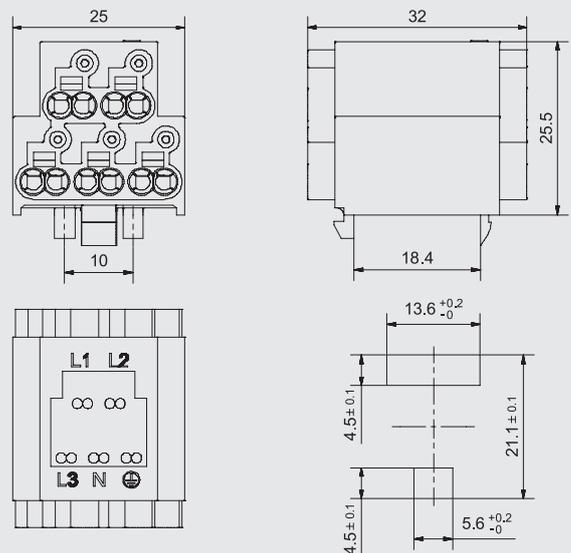
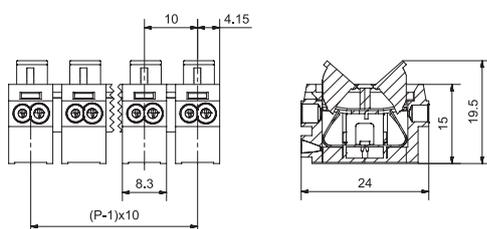
- Connection:**
- external
 - 1 x 0.5 - 2.5 mm² solid
 - 1 x 0.5 - 1.5 mm² solid
 - release by release key resp. screw driver
 - internal
 - 1 x 0.5 - 2.5 mm² solid
 - 1 x 0.5 - 1.5 mm² solid
 - release by release key resp. screw driver
- Fixing:**
- by screw or rivet size Ø 2.9 - 3.0 mm or, by catch pin RS 930 (order no. 190301) into hole size Ø 3.2 mm for plates of 0.5 - 1.2 mm thickness
- Stripping length:** 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²), 9 mm (capacitor)
- Important approvals:** VDE, UL
- Accessories:** strain reliefs (page 86)
- Upon request:** 7 - 11 pole, PE contact pre-assembled, catch pins for quick fixing, printing



Block Connectors 935

- Connection:**
- external
 - 2 x 0.5 - 2.5 mm² solid
 - internal
 - 2 x 0.5 - 2.5 mm² solid
 - capacitor
 - 1 x 0.5 - 0.75 mm² solid
- Fixing:** by catch pins for plates up to 1.0 mm thickness
- Stripping length:** 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²), 9 mm (capacitor)
- Important approvals:** VDE, UL
- Accessories:** strain reliefs (page 86)
- Upon request:** PE contact pre-assembled, different printings

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with two release keys				printed with L1 L2 L3 N PE			
1 pole	930-02/ 1	112401	2500	935 B1	935 B1	108015	500
2 pole	930-02/ 2	112402	1000	unprinted	935	108005	500
3 pole	930-02/ 3	112403	1000				
4 pole	930-02/ 4	112404	500				
5 pole	930-02/ 5	112405	500				
6 pole	930-02/ 6	112406	400				
12 pole	930-02/12	112412	30				
without release key							
1 pole	930-00/ 1	112001	2500				
2 pole	930-00/ 2	112002	1000				
3 pole	930-00/ 3	112003	1000				
4 pole	930-00/ 4	112004	500				
5 pole	930-00/ 5	112005	500				
6 pole	930-00/ 6	112006	400				
12 pole	930-00/12	112012	40				

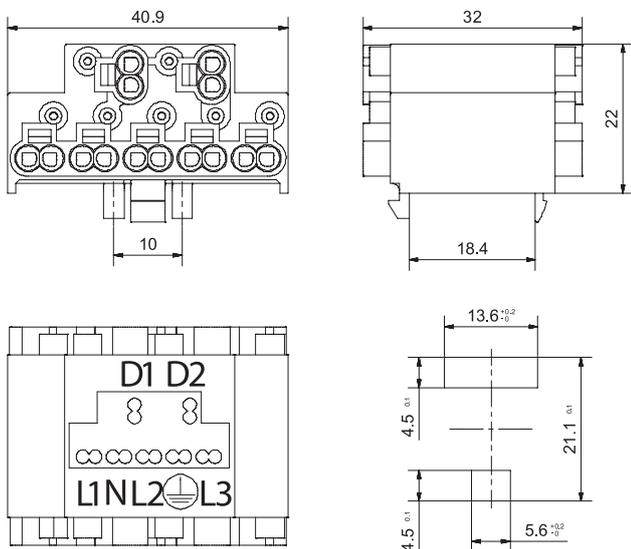




Block Connectors 937

Connection: external
 2 x 0.5 - 2.5 mm² solid
 internal
 2 x 0.5 - 2.5 mm² solid
 capacitor
 1 x 0.5 - 0.75 mm² solid
Fixing: by catch pins for plates up to 1.0 mm thickness
Stripping length: 8 mm (0.5 - 1.0 mm²), 9 mm (1.5 - 2.5 mm²),
 9 mm (capacitor)
Important approvals: VDE
Upon request: PE contact pre-assembled, different printings

Description	Item	Order Number	PU
printed with D1 D2 L1 N L2 PE L3	937 B1	108307B1	500
unprinted	937	108307	500



Screw-Screwless/Fused Connectors



Technical Information

900 Si

Applicable Standards

- EN 60998
connecting devices for low-voltage circuits
- EN 60598
luminaire – general requirements and tests
- EN 60921
specification for accessories to hot- and cold-cathode fluorescent lamps/ballasts
- EN 60335-1
safety of household and similar electrical appliances
- EN 60127-6
fuse holders for miniature fuse links

Current Rating

	EN 60598	EN 60998	EN 60127-6
900-07	16 A	17.5 A at T 85 °C	
900 Q	16 A	17.5 A at T 85 °C	
900 ED	6 A	13.5 A at T 85 °C	
900 EQ	6 A	13.5 A at T 85 °C	
900 Q/1 A	6 A	13.5 A at T 85 °C	
Fuse holders 900 Si			6.3 A at T 70 °C

Plastic Material

polyamide 6 and polyamide 6.6
 flammability rating to UL 94: V-2
 continuous working temperature 100 °C, short-time temperature 160 °C

Metal

contacts screw/screwless: steel, tinned with clamping springs from spring steel
 contacts screw: brass, plated
 clamping screws: steel, zinc plated, chromed
 wire protectors and protective springs: spring steel

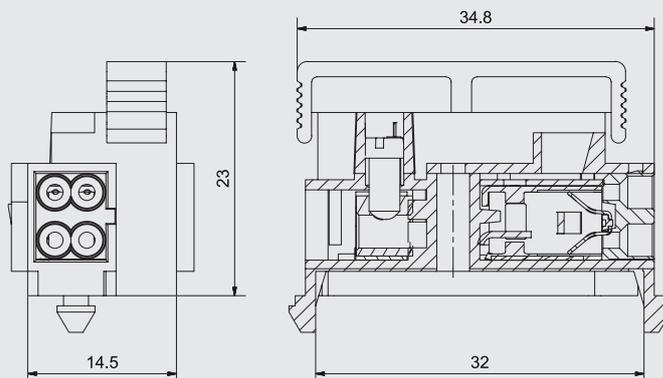
Important Approvals

For current approvals, please see the relative data sheets of each item on our website.

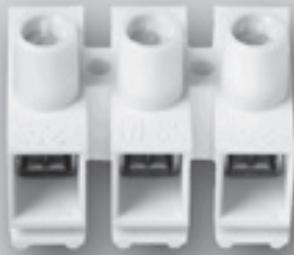
Approvals	Nominal Cross Section	Voltage Rating
	2.5 – 16.0 mm ²	450 V

- Connection: external (screw) 0.5 - 4.0 mm²
internal (screwless) 4 x 0.5 - 1.5 mm² solid
- Fixing: by screw or rivet size Ø 3.0 mm
- Torque screw: M3: ⤵ max. 0.5 Nm
- Stripping length: screw terminals: 8 - 8.5 mm
screwless terminals: 7 - 7.5 mm
- Fuse size: 5 x 20 mm, power dissipation 1,6 W at T 23°C
- Interlocking: with moulded dovetail on one side to interlock 3 pole connectors, single pole connectors 900 Q/ 1 A and fused connectors
- Upon request: interlocking with other connectors, for fuse links 6.3x25 mm, PE contact pre-assembled

Description	Item	Order Number	PU
1 pole	900 Si/ 1	175001	100



Screw-Screwless Connectors



900-07

Connection: external (screw)
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 4.0 mm² (without wire protector)
 internal (screwless)
 2 x 0.5 - 2.5 mm² solid

Fixing: by screw or rivet size Ø 3.1 mm

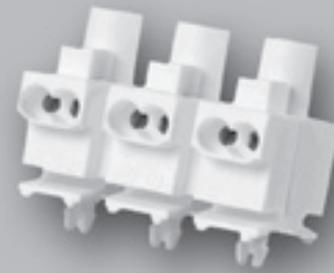
Torque screw: M3: ⤴ max. 0.5 Nm

Stripping length: 8 - 8.5 mm (screw), 7 - 7.5 mm (screwless)

Important approvals: VDE

Accessories: strain reliefs (page 86)

Upon request: 7 - 11 pole, printing, small design, fixing to the base plate by strip, with wire protector



900-07 RZ with Catch Pins

Connection: external (screw)
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 4.0 mm² (without wire protector)
 internal (screwless)
 2 x 0.5 - 2.5 mm² solid

Fixing: into hole size Ø 3.5 mm for plates of
 0.5 - 1.4 mm thickness

Torque screw: M3: ⤴ max. 0.5 Nm

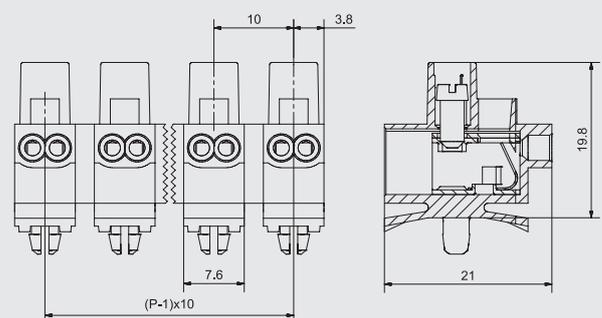
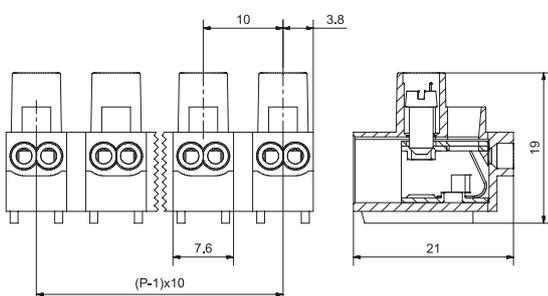
Stripping length: 8 - 8.5 mm (screw), 7 - 7.5 mm (screwless)

Important approvals: VDE

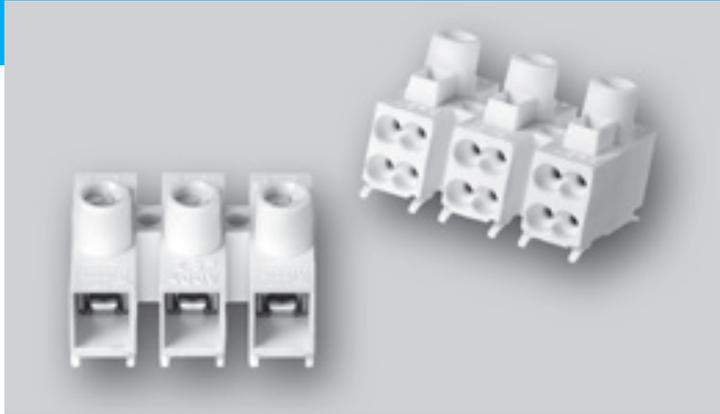
Accessories: strain reliefs (page 86)

Upon request: 7 - 11 pole, printing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				with Wire Protectors			
1 pole	900-07/1 DS	114701	500	1 pole	900-07 RZ/1 DS	114901	500
2 pole	900-07/2 DS	114702	250	2 pole	900-07 RZ/2 DS	114902	250
3 pole	900-07/3 DS	114703	200	3 pole	900-07 RZ/3 DS	114903	800
4 pole	900-07/4 DS	114704	500	4 pole	900-07 RZ/4 DS	114904	500
5 pole	900-07/5 DS	114705	500	5 pole	900-07 RZ/5 DS	114905	500
6 pole	900-07/6 DS	114706	500	6 pole	900-07 RZ/6 DS	114906	500
12 pole	900-07/12 DS	114712	40	12 pole	900-07 RZ/12 DS	114912	25
without Wire Protectors				without Wire Protectors			
1 pole	900-07/1	114601	500	1 pole	900-07 RZ/1	114801	500
2 pole	900-07/2	114602	250	2 pole	900-07 RZ/2	114802	250
3 pole	900-07/3	114603	200	3 pole	900-07 RZ/3	114803	800
4 pole	900-07/4	114604	500	4 pole	900-07 RZ/4	114804	500
5 pole	900-07/5	114605	500	5 pole	900-07 RZ/5	114805	500
6 pole	900-07/6	114606	500	6 pole	900-07 RZ/6	114806	500
12 pole	900-07/12	114612	40	12 pole	900-07 RZ/12	114812	25



Screw-Screwless Connectors



900 Q

Connection: external (screw): 0.5 - 4.0 mm²
internal (screwless): 4 x 0.5 - 1.5 mm² solid

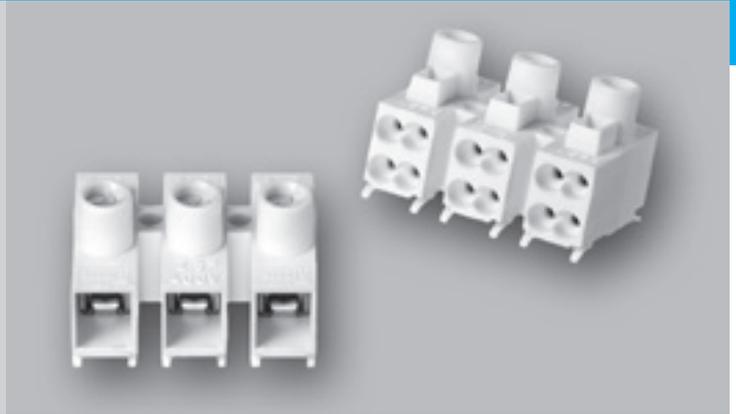
Fixing: with screw or rivet size Ø 3.0 mm

Torque screw: M3: ⤵ max. 0.5 Nm

Stripping length: screw terminals: 8 - 8.5 mm
screwless terminals: 7 - 7.5 mm

Accessories: strain reliefs (page 86)

Upon request: 7 - 11 pole, printing, glow wire polyamide to EN 60335-1, PE contact pre-assembled, with wire protector



900 Q RZ with Catch Pins

Connection: external (screw): 0.5 - 4.0 mm²
internal (screwless): 4 x 0.5 - 1.5 mm² solid into hole size Ø 3.5 mm for plates of 0.5 - 1.4 mm thickness

Fixing: M3: ⤵ max. 0.5 Nm

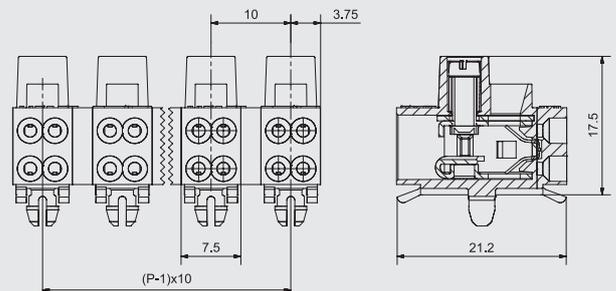
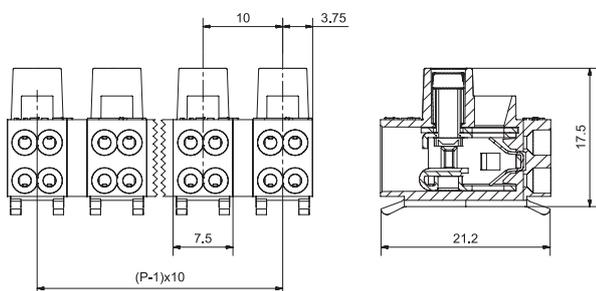
Torque screw: M3: ⤵ max. 0.5 Nm

Stripping length: screw terminals: 8 - 8.5 mm
screwless terminals: 7 - 7.5 mm

Accessories: strain reliefs (page 86)

Upon request: 7 - 11 pole, printing, glow wire polyamide to EN 60335-1, with wire protector, elongated catch pins, PE contact pre-assembled

Description	Item	Order Number	PU	Description	Item	Order Number	PU
1 pole	900 Q/ 1	114001	500	1 pole	900 Q RZ/ 1	114201	500
2 pole	900 Q/ 2	114002	1500	2 pole	900 Q RZ/ 2	114202	1500
3 pole	900 Q/ 3	114003	800	3 pole	900 Q RZ/ 3	114203	800
4 pole	900 Q/ 4	114004	500	4 pole	900 Q RZ/ 4	114204	500
5 pole	900 Q/ 5	114005	500	5 pole	900 Q RZ/ 5	114205	500
6 pole	900 Q/ 6	114006	500	6 pole	900 Q RZ/ 6	114206	500
12 pole	900 Q/12	114012	40	12 pole	900 Q RZ/12	114212	25



Screw-Screwless Connectors



900 ED



900 EQ

Connection: external (screw) 0.5 - 4.0 mm²
 internal (screwless) 2 x 0.5 - 1.0 mm² solid
 PE contact by screw

Fixing: into hole size Ø 3.2 mm for plates of
 0.6 - 1.0 mm thickness

Torque screw: M3: ⚙ max. 0.5 Nm

Stripping length: screw terminals: 8 - 8.5 mm
 screwless terminals: 7 - 7.5 mm

Accessories: strain reliefs (page 74)

Upon request: without catch pins

Connection: external (screw) 0.5 - 4.0 mm²
 internal (screwless) 4 x 0.5 - 1.0 mm² solid
 PE contact by screw

Fixing: into hole size Ø 3.2 mm for plates of
 0.6 - 1.0 mm thickness

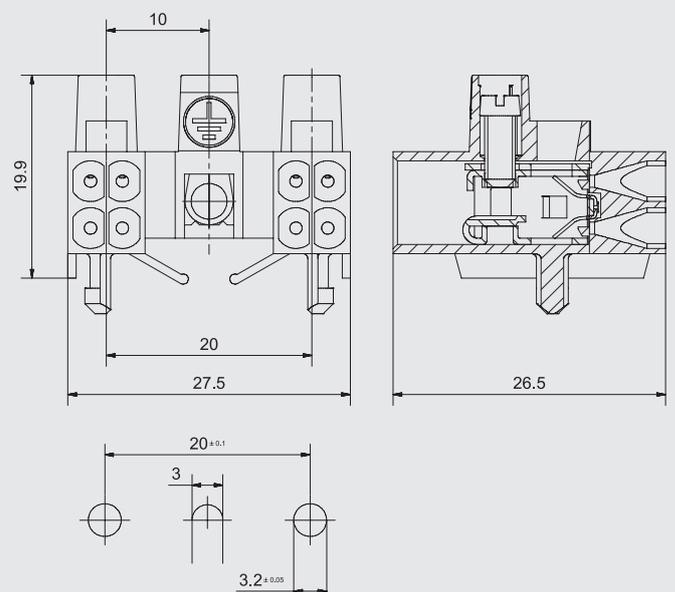
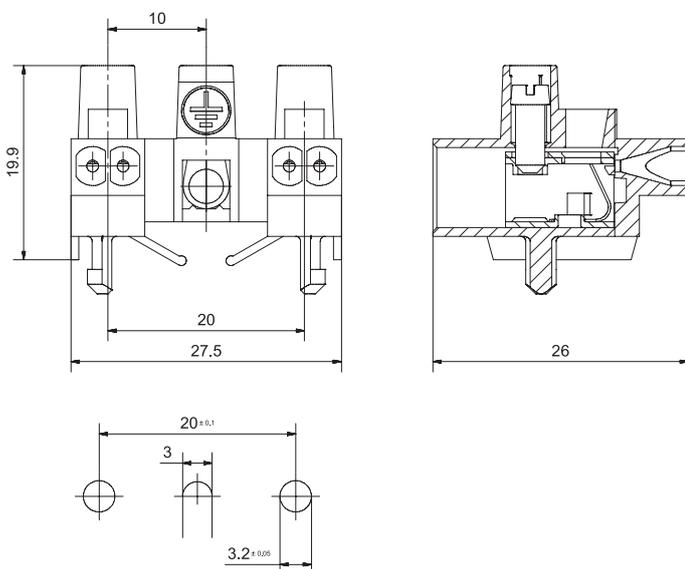
Torque screw: M3: ⚙ max. 0.5 Nm

Stripping length: screw terminals: 8 - 8.5 mm
 screwless terminals: 7 - 7.5 mm

Accessories: strain reliefs (page 74)

Upon request: with moulded dovetail on one side to interlock single pole
 connectors, interlocking with other connectors

Description	Item	Order Number	PU	Description	Item	Order Number	PU
for catch pin fixing	900 ED FR	115113	500	not interlockable	900 EQ FR	115223	1250

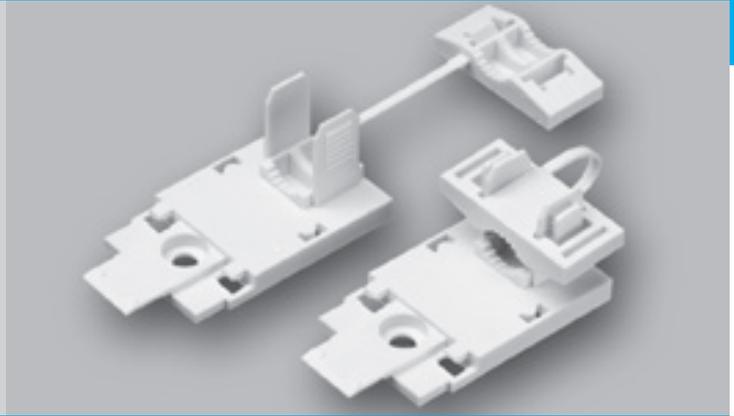


Screw-Screwless Connectors



Interlockable Connectors 900 Q/1 A

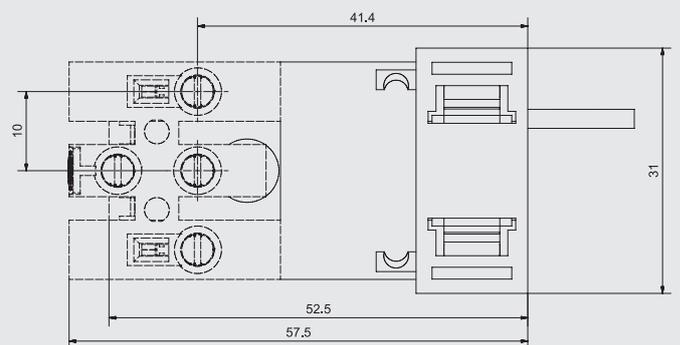
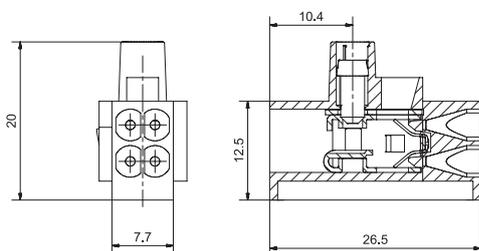
Connection: external (screw) 0.5 - 4.0 mm²
 internal (screwless) 4 x 0.5 - 1.0 mm² solid
Fixing: by interlockable connectors
Torque screw: M3: \cup max. 0.5 Nm
Stripping length: screw terminals: 8 - 8.5 mm
 screwless terminals: 7 - 7.5 mm
Interlocking: with moulded dovetail on one side to interlock 3 pole connectors 900 EQA/3 , fused connectors 900 Si/1 and fused connectors 925 Si/1
Important approvals: VDE
Upon request: interlocking with other connectors, PE contact pre-assembled, engravings



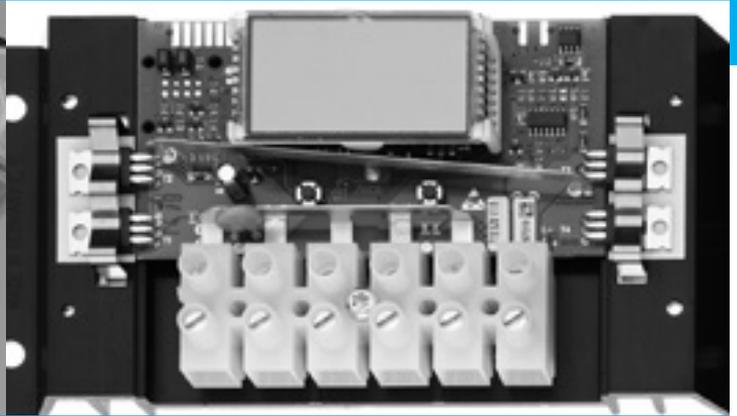
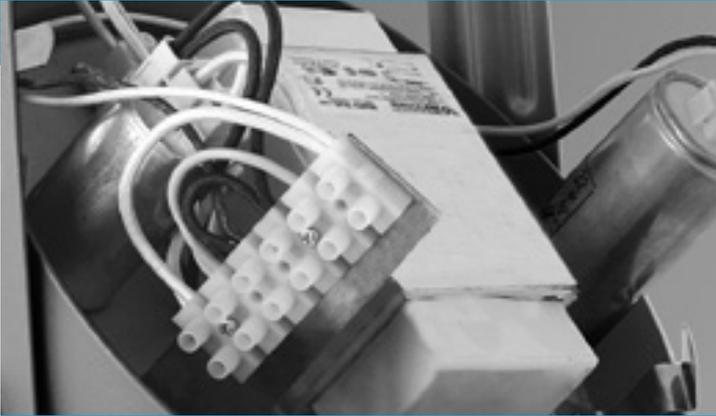
Strain Reliefs 900 EQ ZEL

Connection: screwless
 conductor size \varnothing 6.5 - 12.0 mm
Fixing: by catch pins into hole size \varnothing 3.2 mm for plates of 0.6 - 1.0 mm thickness

Description	Item	Order Number	PU	Description	Item	Order Number	PU
1 pole	900 Q/1 A	115251	200		900 EQ ZEL	115298	500



Screw/Fused Connectors



Technical Information

Applicable Standards

EN 60998
connecting devices for low-voltage circuits
EN 60598
luminaires – general requirements and tests
EN 60335-1
safety of household and similar electrical appliances
EN 60127-6
fuse holders for miniature fuse links

Current Rating

	EN 60998	EN 61984	EN 60127-6
230	16 A	24 A at T 85 °C	
500	16 A	24 A at T 85 °C	
1000	25 A	41 A at T 85 °C	
1500	32 A	57 A at T 85 °C	
2000	40 A	76 A at T 85 °C	
Fuse holders 503 Si			10 A at T 70 °C
Fuse holders 1003 Si			16 A at T 70 °C

Plastic Material

polyamide 6 and polyamide 6/6
flammability rating to UL 94: V-2
continuous working temperature 100 °C, short-time temperature 160 °C

Metal

contacts: brass, plated
clamping screws: steel, zinc plated, chromed
wire protectors and fuse springs: spring steel

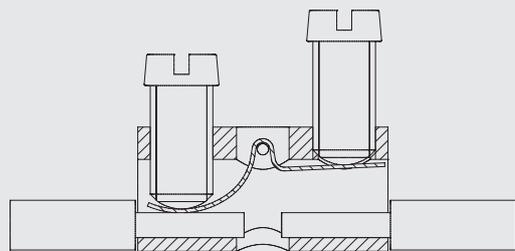
Important Approvals

For current approvals, please see the relative data sheets of each item on our website.

Approvals	Nominal Cross Section	Voltage Rating
	2.5 – 16.0 mm ²	400 V – 750 V
	22 AWG – 6 AWG	150 V – 600 V

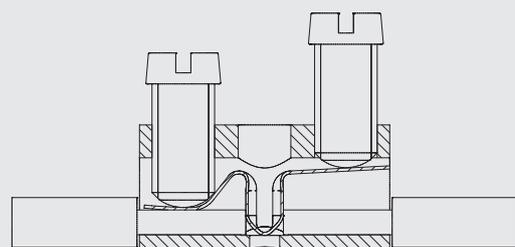
Wire Protectors (DS)

When using fine-strand conductors (without ferrules) a safe contact can only be achieved by using a connector with a wire protector, that the screw presses onto when clamping the conductor. This prevents the copper strands from being damaged.



Centre Stop (MDS)

As an additional option for more safety, Adels-Contact also provides screw connectors with a centre stop, which prevents both conductors from being inserted too far and guarantees precise clamping.



Europa Series Terminal Blocks



230

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 4.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 2.8 mm

Torque screw: M3: ⤴ max. 0.5 Nm

Stripping length: 5 - 5.5 mm

Important approvals: VDE, UL

Accessories: marking labels (page 87), strain reliefs (page 86)

Upon request: 7 - 11 pole, printing, different polyamides (in particular glow wire according to EN 60335-1 and PA 6/6 HT for high temperatures), different screws



230 K with Raised Base

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 4.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 2.8 mm

Torque screw: M3: ⤴ max. 0.5 Nm

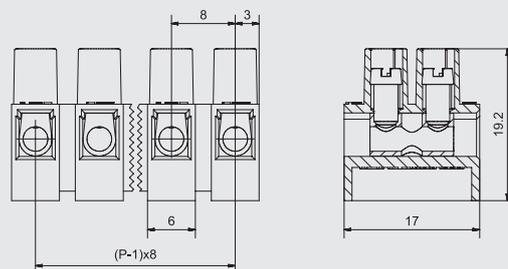
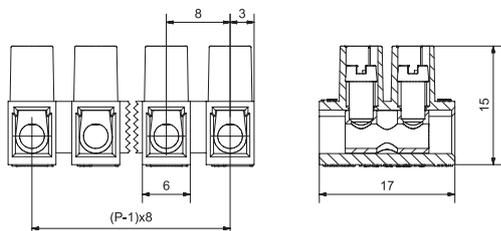
Stripping length: 5 - 5.5 mm

Important approvals: VDE, UL

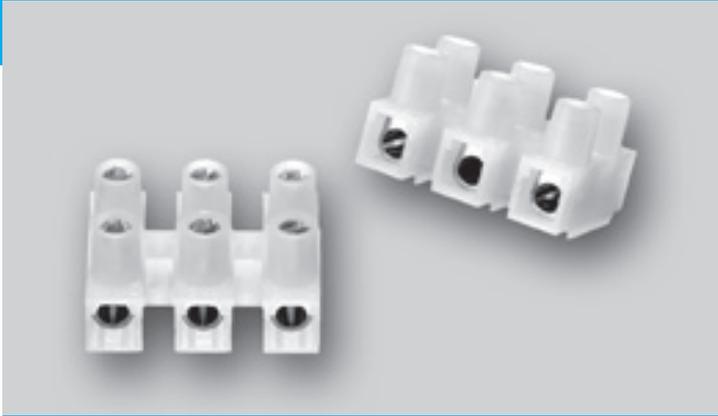
Accessories: marking labels (page 87), strain reliefs (page 86)

Upon request: 7 - 11 pole, printing, different polyamides (in particular glow wire to EN 60335-1), different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				with Wire Protectors			
1 pole	230/ 1 DS	121301	1000	1 pole	230 K/ 1 DS	121701	1000
2 pole	230/ 2 DS	121302	3000	2 pole	230 K/ 2 DS	121702	2000
3 pole	230/ 3 DS	121303	2000	3 pole	230 K/ 3 DS	121703	1500
4 pole	230/ 4 DS	121304	500	4 pole	230 K/ 4 DS	121704	500
5 pole	230/ 5 DS	121305	500	5 pole	230 K/ 5 DS	121705	500
6 pole	230/ 6 DS	121306	500	6 pole	230 K/ 6 DS	121706	500
12 pole	230/12 DS	121312	50	12 pole	230 K/12 DS	121712	40
without Wire Protectors				without Wire Protectors			
1 pole	230/ 1	121201	1000	1 pole	230 K/ 1	121601	1000
2 pole	230/ 2	121202	3000	2 pole	230 K/ 2	121602	2000
3 pole	230/ 3	121203	2000	3 pole	230 K/ 3	121603	1500
4 pole	230/ 4	121204	500	4 pole	230 K/ 4	121604	500
5 pole	230/ 5	121205	500	5 pole	230 K/ 5	121605	500
6 pole	230/ 6	121206	500	6 pole	230 K/ 6	121606	500
12 pole	230/12	121212	50	12 pole	230 K/12	121612	40



Europa Series Terminal Blocks



500-35

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 6.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 3.5 mm

Torque screw: M3: ⌀ max. 0.5 Nm

Stripping length: 7 - 7.5 mm

Important approvals: VDE, UL

Accessories: marking labels (page 87), covers (page 85), strain reliefs (page 87, 86), luminaires connecting box (page 86)

Upon request: 7 - 11 pole, center stop MDS, printing, different polyamides (in particular glow wire to EN 60335-1 and PA 6/6 HT for high temperatures), different screws



500 K 35 with Raised Base

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 6.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 3.5 mm

Torque screw: M3: ⌀ max. 0.5 Nm

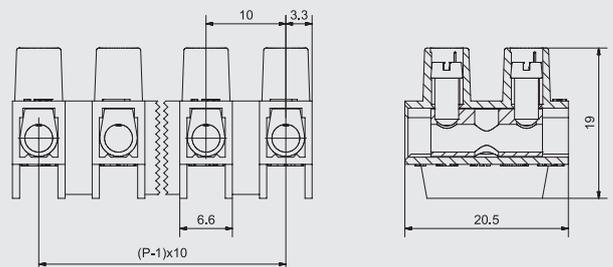
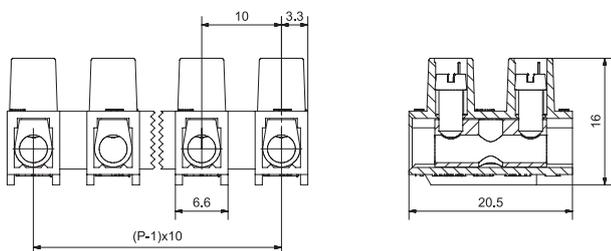
Stripping length: 7 - 7.5 mm

Important approvals: VDE, UL

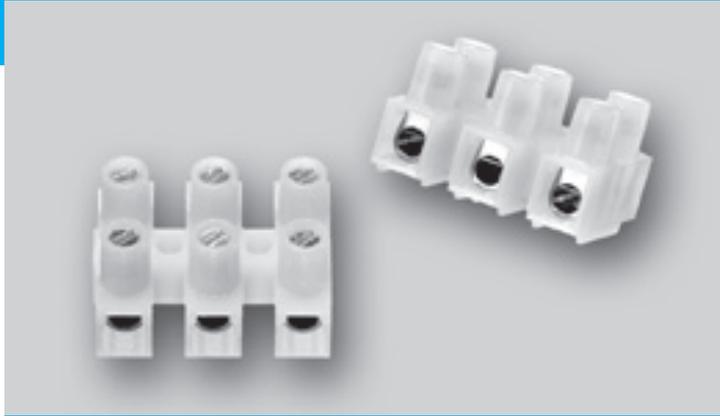
Accessories: marking labels (page 87), covers (page 85), strain reliefs (page 86)

Upon request: 7 - 11 pole, center stop MDS, printing, different polyamides (in particular glow wire to EN 60335-1 and PA 6/6 HT for high temperatures), different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				with Wire Protectors			
1 pole	500/ 1 35 DS	123301	500	1 pole	500 K/ 1 35 DS	123701	500
2 pole	500/ 2 35 DS	123302	1100	2 pole	500 K/ 2 35 DS	123702	1000
3 pole	500/ 3 35 DS	123303	1000	3 pole	500 K/ 3 35 DS	123703	1000
4 pole	500/ 4 35 DS	123304	500	4 pole	500 K/ 4 35 DS	123704	400
5 pole	500/ 5 35 DS	123305	500	5 pole	500 K/ 5 35 DS	123705	500
6 pole	500/ 6 35 DS	123306	500	6 pole	500 K/ 6 35 DS	123706	500
12 pole	500/12 35 DS	123312	50	12 pole	500 K/12 35 DS	123712	40
without Wire Protectors				without Wire Protectors			
1 pole	500/ 1 35	123201	500	1 pole	500 K/ 1 35	123601	500
2 pole	500/ 2 35	123202	1100	2 pole	500 K/ 2 35	123602	1000
3 pole	500/ 3 35	123203	1000	3 pole	500 K/ 3 35	123603	1000
4 pole	500/ 4 35	123204	500	4 pole	500 K/ 4 35	123604	400
5 pole	500/ 5 35	123205	500	5 pole	500 K/ 5 35	123605	500
6 pole	500/ 6 35	123206	500	6 pole	500 K/ 6 35	123606	500
12 pole	500/12 35	123212	50	12 pole	500 K/12 35	123612	40



Europa Series Terminal Blocks



500-31

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 6.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 3.1 mm

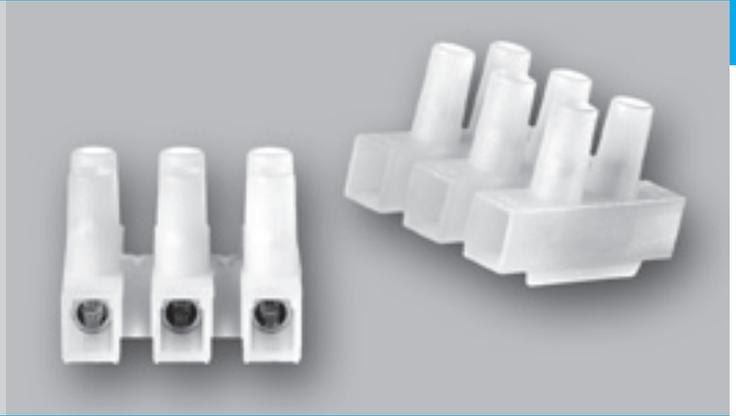
Torque screw: M3: ⌀ max. 0.5 Nm

Stripping length: 7 - 7.5 mm

Important approvals: VDE, UL

Accessories: marking labels (page 87), covers (page 85), strain reliefs (page 87, 86), luminaires connecting box (page 86)

Upon request: 7 - 11 pole, center stop MDS, printing, different polyamides (in particular glow wire to EN 60335-1 and PA 6/6 HT for high temperatures), different screws



500 SK II Protection Class II

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 6.0 mm² (without wire protector)

Fixing: by plastic screw Ø 4.1 mm

Torque screw: M3: ⌀ max. 0.5 Nm

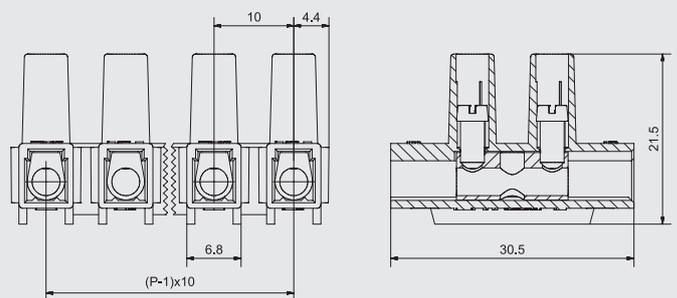
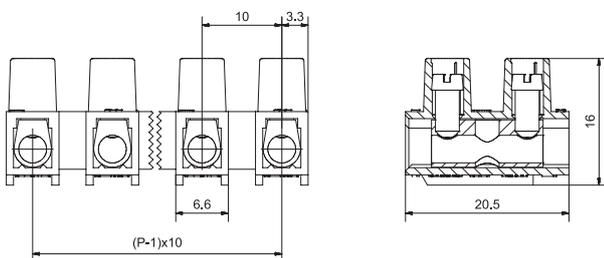
Stripping length: 7 - 7.5 mm

Important approvals: VDE, UL

Accessories: marking labels (page 87), strain reliefs (page 86)

Upon request: 7 - 11 pole, printing, different polyamides (in particular glow wire to EN 60335-1 and PA 6/6 HT for high temperatures), different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				with Wire Protectors and Center Stop			
1 pole	500/ 1 31 DS	122301	500	1 pole	500 SK II/ 1 MDS	124901M	1000
2 pole	500/ 2 31 DS	122302	1100	2 pole	500 SK II/ 2 MDS	124902M	1000
3 pole	500/ 3 31 DS	122303	1000	3 pole	500 SK II/ 3 MDS	124903M	500
4 pole	500/ 4 31 DS	122304	500	4 pole	500 SK II/ 4 MDS	124904M	500
5 pole	500/ 5 31 DS	122305	500	5 pole	500 SK II/ 5 MDS	124905M	400
6 pole	500/ 6 31 DS	122306	500	6 pole	500 SK II/ 6 MDS	124906M	400
12 pole	500/12 31 DS	122312	50	12 pole	500 SK II/12 MDS	124912M	30
without Wire Protectors				without Wire Protectors			
1 pole	500/ 1 31	122201	500	1 pole	500 SK II/ 1	124801	1000
2 pole	500/ 2 31	122202	1100	2 pole	500 SK II/ 2	124802	1000
3 pole	500/ 3 31	122203	1000	3 pole	500 SK II/ 3	124803	500
4 pole	500/ 4 31	122204	500	4 pole	500 SK II/ 4	124804	500
5 pole	500/ 5 31	122205	500	5 pole	500 SK II/ 5	124805	400
6 pole	500/ 6 31	122206	500	6 pole	500 SK II/ 6	124806	400
12 pole	500/12 31	122212	50	12 pole	500 SK II/12	124812	30



Europa Series Terminal Blocks



500 SKT II Protection Class II

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 6.0 mm² (without wire protector)

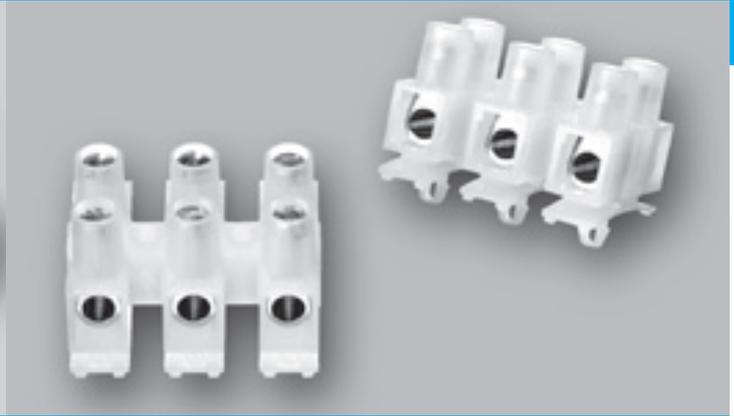
Fixing: by metal screw Ø 3.0 mm

Torque screw: ⌀ max. 0,5 Nm

Stripping length: 7 - 7.5 mm

Accessories: marking labels (page 87), strain reliefs (page 86)

Upon request: 7 - 11 pole, printing, different polyamides (in particular glow wire to EN 60335-1), different screws



500 RZ with Catch Pins

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 6.0 mm² (without wire protector)

Fixing: into hole size Ø 3.5 mm for plates of 0.5 - 1.4 mm thickness

Torque screw: M3: ⌀ max. 0.5 Nm

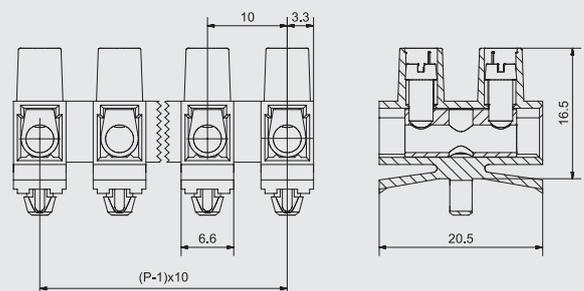
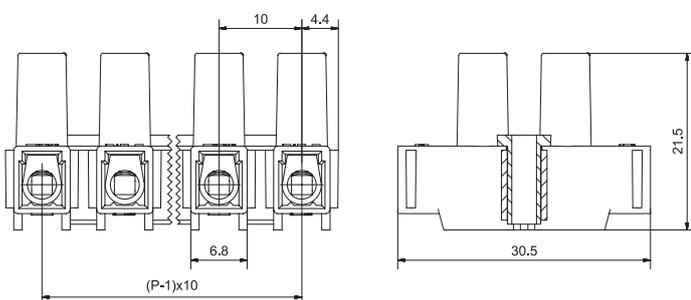
Stripping length: 7 - 7.5 mm

Important approvals: VDE, UL

Accessories: marking labels (page 87), covers (page 85), strain reliefs (page 86)

Upon request: 7 - 11 pole, center stop MDS, printing, different polyamides (in particular glow wire to EN 60335-1), different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors and Center Stop				with Wire Protectors			
2 pole	500 SKT II/ 2 MDS	124702M	1000	1 pole	500 RZ/ 1 DS	124301	2000
3 pole	500 SKT II/ 3 MDS	124703M	500	2 pole	500 RZ/ 2 DS	124302	1000
4 pole	500 SKT II/ 4 MDS	124704M	500	3 pole	500 RZ/ 3 DS	124303	1000
5 pole	500 SKT II/ 5 MDS	124705M	400	4 pole	500 RZ/ 4 DS	124304	400
6 pole	500 SKT II/ 6 MDS	124706M	400	5 pole	500 RZ/ 5 DS	124305	500
12 pole	500 SKT II/12 MDS	124712M	30	6 pole	500 RZ/ 6 DS	124306	500
without Wire Protectors				12 pole	500 RZ/12 DS	124312	40
without Wire Protectors				without Wire Protectors			
2 pole	500 SKT II/ 2	124602	1000	1 pole	500 RZ/ 1	124201	2000
3 pole	500 SKT II/ 3	124603	500	2 pole	500 RZ/ 2	124202	1000
4 pole	500 SKT II/ 4	124604	500	3 pole	500 RZ/ 3	124203	1000
5 pole	500 SKT II/ 5	124605	400	4 pole	500 RZ/ 4	124204	400
6 pole	500 SKT II/ 6	124606	400	5 pole	500 RZ/ 5	124205	500
12 pole	500 SKT II/12	124612	30	6 pole	500 RZ/ 6	124206	500
				12 pole	500 RZ/12	124212	40



Europa Series Terminal Blocks



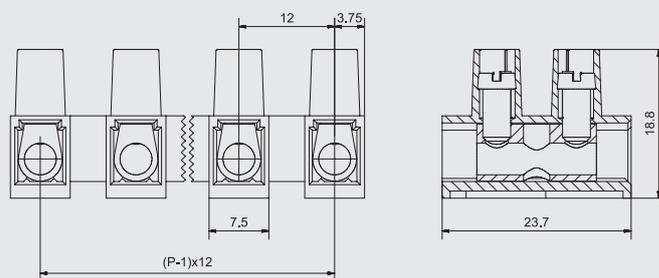
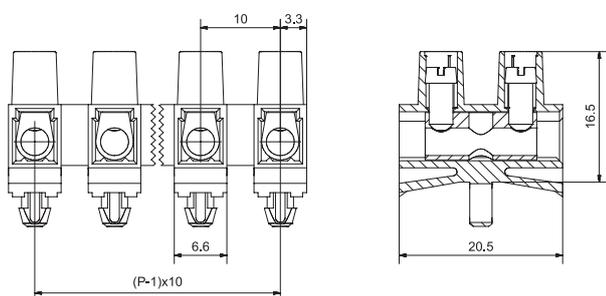
500 LRZ with Elongated Catch Pins

1000

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 6.0 mm² (without wire protector)
Fixing: into hole size Ø 3.5 mm for plates of
 1.5 - 2.5 mm thickness
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 7 - 7.5 mm
Important approvals: VDE, UL
Accessories: marking labels (page 87), covers (page 85), strain reliefs (page 86)
Upon request: 7 - 11 pole, center stop MDS, printing, different polyamides (in particular glow wire to EN 60335-1), different screws

Connection: conductor size 0.5 - 6.0 mm² (with wire protector)
 conductor size 0.5 - 10.0 mm² (without wire protector)
Fixing: by screw or rivet size Ø 3.6 mm
Torque screw: M3.5: ⌀ max. 0.8 Nm
Stripping length: 7.5 - 8 mm
Important approvals: VDE, UL
Accessories: marking labels (page 87), covers (page 85), strain reliefs (page 86)
Upon request: 7 - 11 pole, center stop MDS, printing, different polyamides (in particular glow wire to EN 60335-1 and PA 6.6 HT for high temperatures), different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				with Wire Protectors			
1 pole	500 LRZ/ 1 DS	124501	2000	1 pole	1000/ 1 DS	125301	500
2 pole	500 LRZ/ 2 DS	124502	1000	2 pole	1000/ 2 DS	125302	1000
3 pole	500 LRZ/ 3 DS	124503	1000	3 pole	1000/ 3 DS	125303	400
4 pole	500 LRZ/ 4 DS	124504	400	4 pole	1000/ 4 DS	125304	500
5 pole	500 LRZ/ 5 DS	124505	500	5 pole	1000/ 5 DS	125305	400
6 pole	500 LRZ/ 6 DS	124506	500	6 pole	1000/ 6 DS	125306	300
12 pole	500 LRZ/12 DS	124512	40	12 pole	1000/12 DS	125312	25
without Wire Protectors				without Wire Protectors			
1 pole	500 LRZ/ 1	124401	2000	1 pole	1000/ 1	125201	500
2 pole	500 LRZ/ 2	124402	1000	2 pole	1000/ 2	125202	1000
3 pole	500 LRZ/ 3	124403	1000	3 pole	1000/ 3	125203	400
4 pole	500 LRZ/ 4	124404	400	4 pole	1000/ 4	125204	500
5 pole	500 LRZ/ 5	124405	500	5 pole	1000/ 5	125205	400
6 pole	500 LRZ/ 6	124406	500	6 pole	1000/ 6	125206	300
12 pole	500 LRZ/12	124412	40	12 pole	1000/12	125212	25



Europa Series Terminal Blocks



1000 K with Raised Base

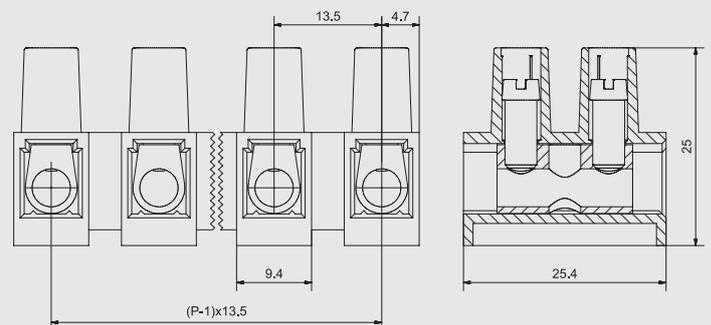
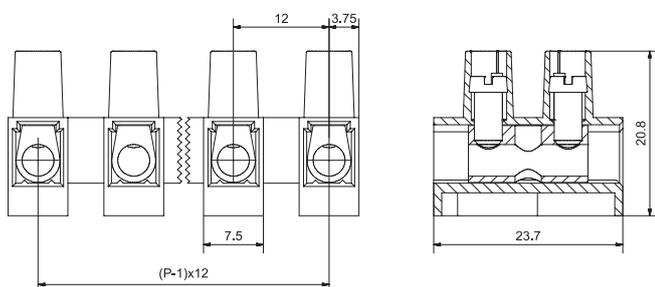
Connection: conductor size 0.5 - 6.0 mm² (with wire protector)
 conductor size 0.5 - 10.0 mm² (without wire protector)
Fixing: by screw or rivet size Ø 3.6 mm
Torque screw: M3,5: ⌀ max. 0.8 Nm
Stripping length: 7.5 - 8 mm
Important approvals: VDE, UL
Accessories: marking labels (page 87), covers (page 85), strain reliefs (page 86)
Upon request: 7 - 11 pole, center stop MDS, printing, different polyamides (in particular glow wire to EN 60335-1 and PA 6/6 HT for high temperatures), different screws



1500

Connection: conductor size 0.5 - 6.0 mm² (with wire protector)
 conductor size 0.5 - 10.0 mm² (without wire protector)
Fixing: by screw or rivet size Ø 4.3 mm
Torque screw: M4: ⌀ max. 1.2 Nm
Stripping length: 8 - 8.5 mm
Important approvals: VDE, UL
Accessories: strain reliefs (page 86)
Upon request: 7 - 11 pole, printing, different polyamides (in particular glow wire to EN 60335-1), different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				with Wire Protectors			
1 pole	1000 K/ 1 DS	125701	500	1 pole	1500/ 1 DS	127101	500
2 pole	1000 K/ 2 DS	125702	1000	2 pole	1500/ 2 DS	127102	500
3 pole	1000 K/ 3 DS	125703	400	3 pole	1500/ 3 DS	127103	500
4 pole	1000 K/ 4 DS	125704	500	4 pole	1500/ 4 DS	127104	400
5 pole	1000 K/ 5 DS	125705	350	5 pole	1500/ 5 DS	127105	60
6 pole	1000 K/ 6 DS	125706	250	6 pole	1500/ 6 DS	127106	50
12 pole	1000 K/12 DS	125712	25	12 pole	1500/12 DS	127112	25
without Wire Protectors				without Wire Protectors			
1 pole	1000 K/ 1	125601	500	1 pole	1500/ 1	127001	500
2 pole	1000 K/ 2	125602	1000	2 pole	1500/ 2	127002	500
3 pole	1000 K/ 3	125603	400	3 pole	1500/ 3	127003	500
4 pole	1000 K/ 4	125604	500	4 pole	1500/ 4	127004	400
5 pole	1000 K/ 5	125605	350	5 pole	1500/ 5	127005	60
6 pole	1000 K/ 6	125606	250	6 pole	1500/ 6	127006	50
12 pole	1000 K/12	125612	25	12 pole	1500/12	127012	25



Europa Series Terminal Blocks



2000

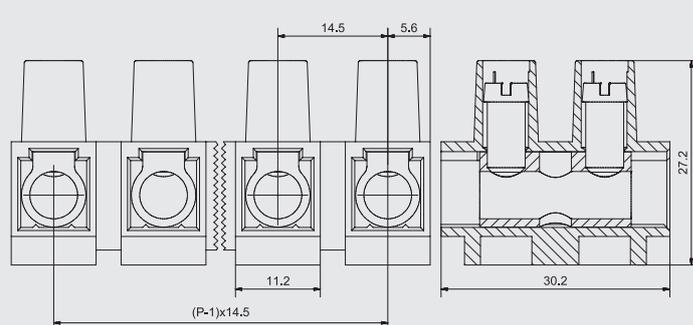
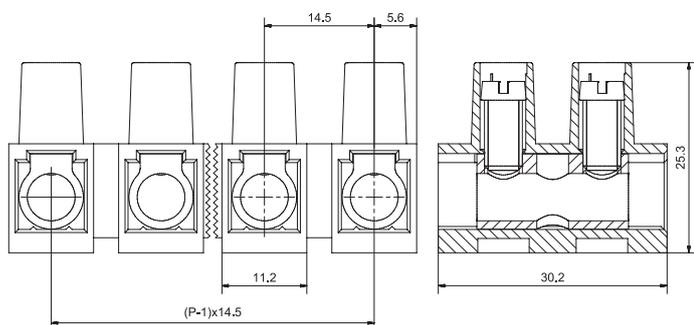
Connection: conductor size 0.5 - 10.0 mm² (with wire protector)
 conductor size 0.5 - 16.0 mm² (without wire protector)
Fixing: by screw or rivet size Ø 4.3 mm
Torque screw: M5: ⤴ max. 2.0 Nm
Stripping length: 10 - 10.5 mm
Important approvals: VDE, UL
Accessories: strain reliefs (page 86)
Upon request: 7 - 11 pole, center stop MDS, printing, different polyamides (in particular glow wire to EN 60335-1), different screws



2000 K with Raised Base

Connection: conductor size 0.5 - 10.0 mm² (with wire protector)
 conductor size 0.5 - 16.0 mm² (without wire protector)
Fixing: by screw or rivet size Ø 4.3 mm
Torque screw: M5: ⤴ max. 2.0 Nm
Stripping length: 10 - 10.5 mm
Important approvals: VDE, UL
Accessories: strain reliefs (page 86)
Upon request: 7 - 11 pole, center stop MDS, printing, different polyamides (in particular glow wire to EN 60335-1), different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				with Wire Protectors			
1 pole	2000/1 DS	128301	200	1 pole	2000 K/1 DS	128701	200
2 pole	2000/2 DS	128302	120	2 pole	2000 K/2 DS	128702	120
3 pole	2000/3 DS	128303	80	3 pole	2000 K/3 DS	128703	50
4 pole	2000/4 DS	128304	60	4 pole	2000 K/4 DS	128704	40
5 pole	2000/5 DS	128305	40	5 pole	2000 K/5 DS	128705	40
6 pole	2000/6 DS	128306	40	6 pole	2000 K/6 DS	128706	40
12 pole	2000/12 DS	128312	20	12 pole	2000 K/12 DS	128712	15
without Wire Protectors				without Wire Protectors			
1 pole	2000/1	128201	200	1 pole	2000 K/1	128601	200
2 pole	2000/2	128202	120	2 pole	2000 K/2	128602	120
3 pole	2000/3	128203	80	3 pole	2000 K/3	128603	50
4 pole	2000/4	128204	60	4 pole	2000 K/4	128604	40
5 pole	2000/5	128205	40	5 pole	2000 K/5	128605	40
6 pole	2000/6	128206	40	6 pole	2000 K/6	128606	40
12 pole	2000/12	128212	20	12 pole	2000 K/12	128612	15





503 Si

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 6.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 3.1 mm (1 pole Ø 2.1 mm) and anti-twist protection

Torque screw: M3: ⚡ max. 0.5 Nm

Stripping length: 7 - 7.5 mm

Fuse size: 5 x 20 mm, power dissipation 2.5 W at T 23 °C

Important approvals: VDE, UL

Accessories: covers (page 85), strain reliefs (page 86)

Upon request: marking labels, pre-assembled fuses, printing, different polyamides (in particular glow wire to EN 60335-1), different screws



503 Si E with PE Contact to the Base Plate

Connection: conductor size 0.5 - 2.5 mm² (with wire protector)
conductor size 0.5 - 6.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 3.1 mm and anti-twist protection, PE connection to the 2nd pole by screw M3 x (10 mm + thickness of plate and tooth lock washer)

Torque screw: M3: ⚡ max. 0.5 Nm

Stripping length: 7 - 7.5 mm

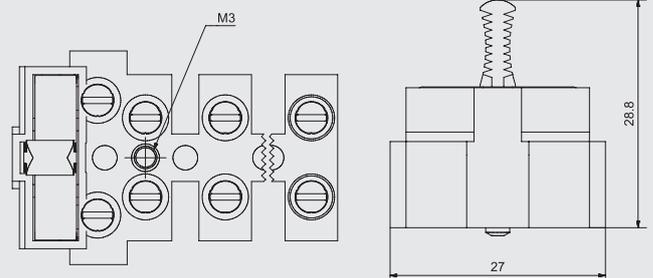
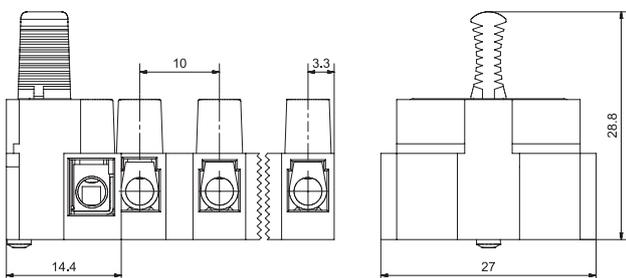
Fuse size: 5 x 20 mm, power dissipation 2.5 W at T 23 °C

Accessories: covers (page 85), strain reliefs (page 86)

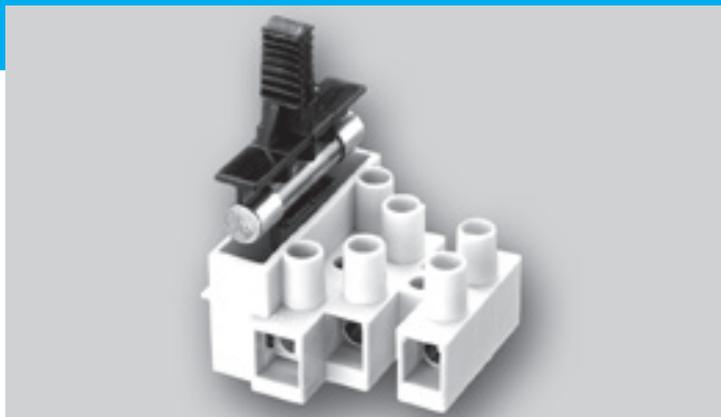
Upon request: marking labels, pre-assembled fuses, printing, different polyamides (in particular glow wire to EN 60335-1), different screws

Description	Item	Order Number	PU
with Wire Protectors			
1 pole	503 Si/ 1 DS	170301	100
2 pole	503 Si/ 2 DS	170302	300
3 pole	503 Si/ 3 DS	170303	200
4 pole	503 Si/ 4 DS	170304	200
5 pole	503 Si/ 5 DS	170305	100
without Wire Protectors			
1 pole	503 Si/ 1	170201	100
2 pole	503 Si/ 2	170202	300
3 pole	503 Si/ 3	170203	200
4 pole	503 Si/ 4	170204	200
5 pole	503 Si/ 5	170205	100

Description	Item	Order Number	PU
with Wire Protectors			
3 pole	503 Si/ 3 E DS	170703	200
4 pole	503 Si/ 4 E DS	170704	200
5 pole	503 Si/ 5 E DS	170705	100
without Wire Protectors			
3 pole	503 Si/ 3 E	170603	200
4 pole	503 Si/ 4 E	170604	200
5 pole	503 Si/ 5 E	170605	100



Fused Connectors



1003 Si

Connection: conductor size 0.5 - 4.0 mm² (with wire protector)
conductor size 0.5 - 10.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 3.6 mm and anti-twist protection

Torque screw: M3.5: ⤴ max. 0.8 Nm

Stripping length: 7.5 - 8 mm

Fuse size: 6.3 x 25 (or 32) mm,
power dissipation 4 W at T 23 °C

Important approvals: VDE, UL

Accessories: strain reliefs (page 86)

Upon request: pre-assembled fuses, printing, different polyamides (in particular glow wire to EN 60335-1), different screws



1003 Si E with PE Contact to the Base Plate

Connection: conductor size 0.5 - 4.0 mm² (with wire protector)
conductor size 0.5 - 10.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 3.6 mm and anti-twist protection, PE connection to the 2nd pole by screw M3.5 x (12 mm + thickness of plate and tooth lock washer)

Torque screw: M3.5: ⤴ max. 0.8 Nm

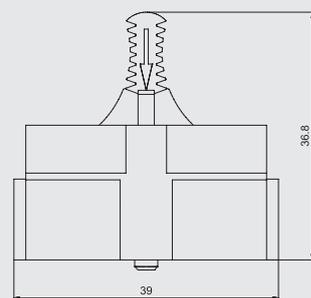
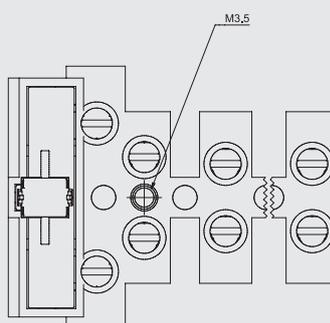
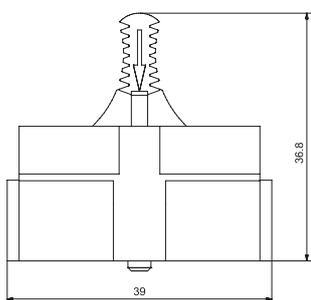
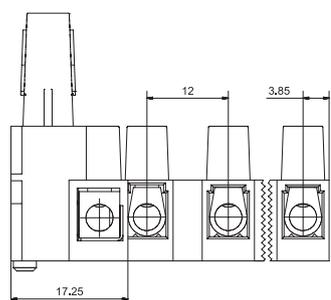
Stripping length: 7.5 - 8 mm

Fuse size: 6.3 x 25 (or 32) mm,
power dissipation 4 W at T 23 °C

Accessories: strain reliefs (page 86)

Upon request: pre-assembled fuses, printing, different polyamides (in particular glow wire to EN 60335-1), different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				wih Wire Protectors			
1 pole	1003 Si/ 1 DS	171301	100	3 pole	1003 Si/ 3 E DS	171703	200
2 pole	1003 Si/ 2 DS	171302	200	4 pole	1003 Si/ 4 E DS	171704	100
3 pole	1003 Si/ 3 DS	171303	200	5 pole	1003 Si/ 5 E DS	171705	100
4 pole	1003 Si/ 4 DS	171304	100	without Wire Protectors			
5 pole	1003 Si/ 5 DS	171305	100	3 pole	1003 Si/ 3 E	171603	200
without Wire Protectors				4 pole	1003 Si/ 4 E	171604	100
1 pole	1003 Si/ 1	171201	100	5 pole	1003 Si/ 5 E	171605	100
2 pole	1003 Si/ 2	171202	200				
3 pole	1003 Si/ 3	171203	200				
4 pole	1003 Si/ 4	171204	100				
5 pole	1003 Si/ 5	171205	100				



Accessories Screw Connectors



Covers for Europa Series Terminal Blocks

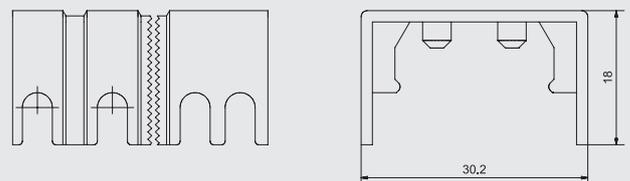
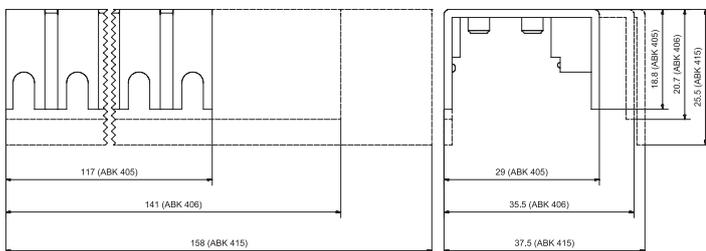
Fixing: to be fixed on Europa series terminal blocks 500 and 1000
 Upon request: Cover for Europa Series terminal blocks 1500,
 7 - 11 pole, printing, different polyamides



Covers for Fused Connectors 503 Si

Fixing: to be fixed on fused connectors 503 Si
 Upon request: printing, different polyamides

Description	Item	Order Number	PU	Description	Item	Order Number	PU
for Europa Series Type 500				2 pole	ABK 503/ 2	193802	200
2 pole	ABK 405/ 2	193202	250	3 pole	ABK 503/ 3	193803	200
3 pole	ABK 405/ 3	193203	200	4 pole	ABK 503/ 4	193804	200
4 pole	ABK 405/ 4	193204	150	5 pole	ABK 503/ 5	193805	100
5 pole	ABK 405/ 5	193205	100				
6 pole	ABK 405/ 6	193206	80				
12 pole	ABK 405/12	193212	40				
for Europa Series Type 1000							
2 pole	ABK 406/ 2	193302	200				
3 pole	ABK 406/ 3	193303	100				
4 pole	ABK 406/ 4	193304	75				
5 pole	ABK 406/ 5	193305	50				
6 pole	ABK 406/ 6	193306	50				
12 pole	ABK 406/12	193312	25				



Accessories Screw Connectors



Luminaires Connecting Box LCB 50

Connection: use of Europa series terminal blocks 500-31 and 500-35
fixing of single conductors of size 0.5 - 2.5 mm² to the housing

Fixing: by screw, together with Europa series terminal blocks
500-31 or 500-35

Upon request: pre-assembled terminal blocks, printing

Description	Item	Order Number	PU
for 2 pole terminal blocks	LCB 50/ 2 white	542152	1000
	LCB 50/ 2 black	542162	1000
for 3 pole terminal blocks	LCB 50/ 3 white	542153	1000
	LCB 50/ 3 black	542163	1000



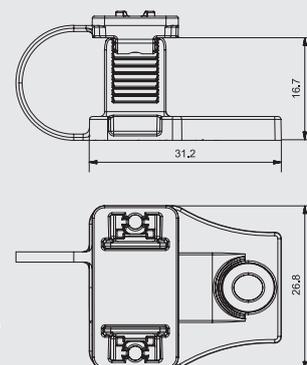
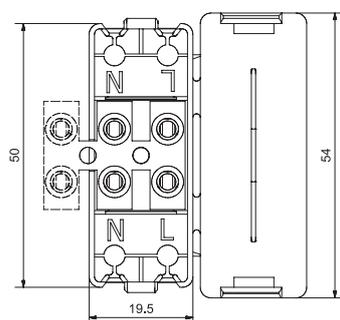
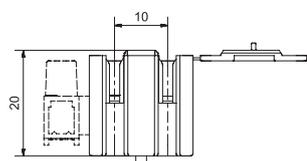
Universal Strain Reliefs for Connectors

Connection: screwless
for conductors size Ø 5.0 - 12.0 mm

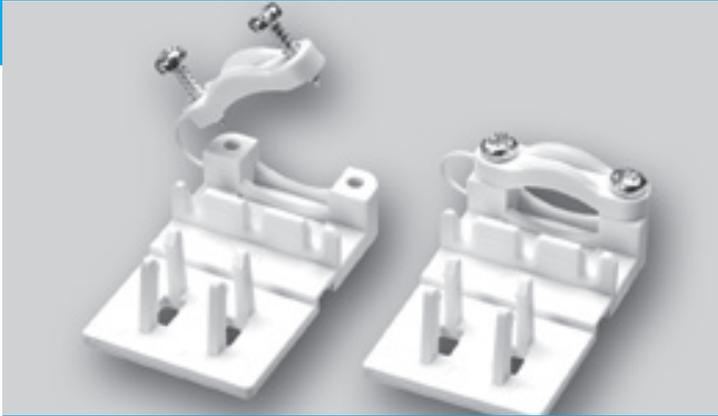
Fixing: by screw M4

Upon request: strain reliefs with catch pins (ZEL 100)

Description	Item	Order Number	PU
for screw fixing	ZEL 110	196420	500



Accessories Screw Connectors



Strain Reliefs for Europa Series Type 500

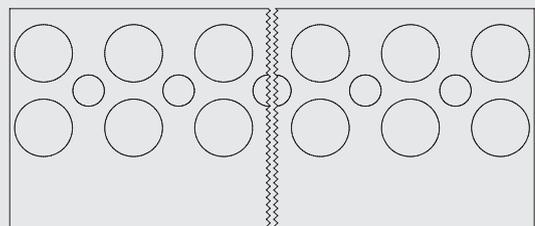
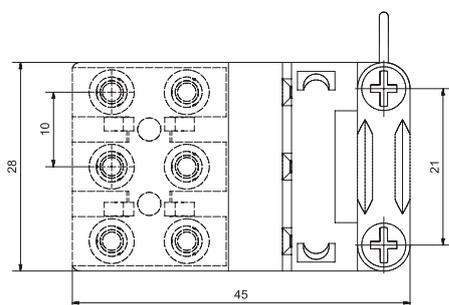
Connection: for conductors size \varnothing 5.5 - 11.0 mm
 Fixing: into hole size \varnothing 3.5 mm for plates of 0.6 - 1.0 mm thickness
 Torque screw: C2.9: \cup max. 0,4 Nm
 Upon request: different polyamides



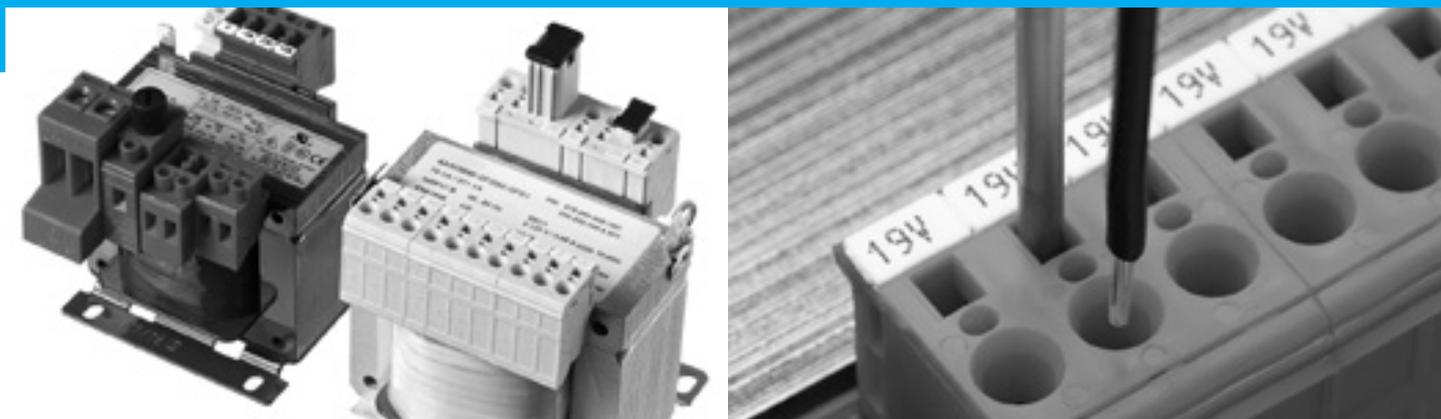
Marking Labels

Fixing: to be fixed on top or underneath Europa Series terminal blocks 230, 500 and 1000
 Upon request: Marking labels for Europa series terminal blocks 1500 and 2000, 4 - 11 pole, printing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
for screw fixing	500/ 3 ZEL	196003	500	for Europa Series Type 230			
for catch pin fixing	500/ 3 ZEL RZ	196103	500	Strips, 2 metres	230 BZ/ M	191200	25
				2 pole	230 BZ/ 2	191202	250
				3 pole	230 BZ/ 3	191203	250
				12 pole	230 BZ/12	191212	250
				for Europa Series Type 500			
				Strips, 2 metres	500 BZ/ M	191300	25
				2 pole	500 BZ/ 2	191302	250
				3 pole	500 BZ/ 3	191303	250
				12 pole	500 BZ/12	191312	250
				for Europa Series Type 1000			
				Strips, 2 metres	1000 BZ/ M	191400	25
				2 pole	1000 BZ/ 2	191402	250
				3 pole	1000 BZ/ 3	191403	250
				12 pole	1000 BZ/12	191412	250



Transformer Connectors



Technical Information

Applicable Standards

EN 60998
connecting devices for low-voltage circuits

EN 61558-1
safety of transformers, power supply units and the like

EN 60127-6
fuse holders for miniature fuse links

EN 50274
protection against electric shock – protection against unintentional direct contact with hazardous live parts (finger safety guard)

Current Rating

	EN 61558-1	EN 60998	EN 60127-6
BTF 2,5	25 A	25 A at T 85 °C	
RKW 14	32 A	32 A at T 100 °C	
TC 2523	32 A	32 A at T 85 °C	
TC 2533	32 A	32 A at T 85 °C	
BTF 4	32 A	32 A at T 85 °C	
RKW 110	76 A	76 A at T 85 °C	
BT 10	63 A	63 A at T 85 °C	
DK 4	32 A	32 A at T 85 °C	
Fuse holders 5,0 x 20 mm			10 A at T 70 °C
Fuse holders 6,3 x 32 mm			16 A at T 70 °C

Plastic Material

polyamide 6/6
flammability rating to UL 94: V-2
continuous working temperature 100 °C, short-time temperature 160 °C

Metal

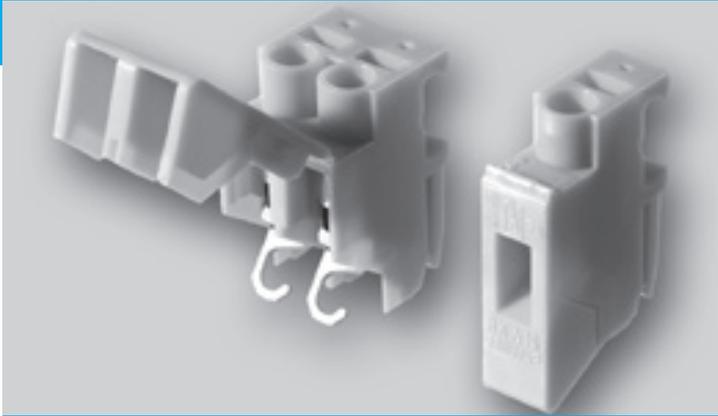
contacts: brass, plated
clamping screws: steel, zinc plated, chromed
spring cage: spring steel
busbars: copper, tinned

Important Approvals

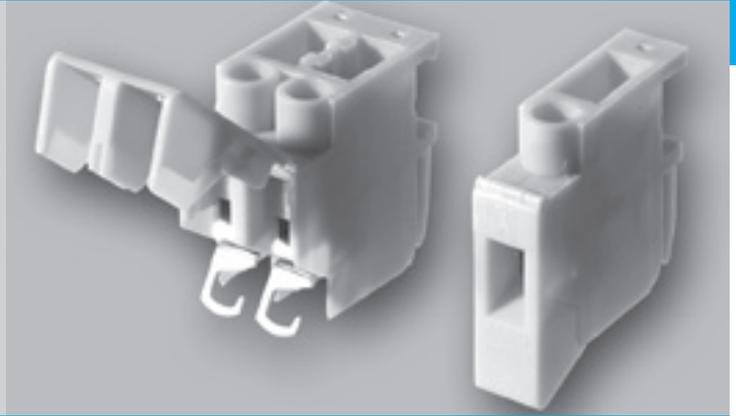
For current approvals, please see the relative data sheets of each item on our website.

Approvals	Nominal Cross Section	Voltage Rating
	4 – 16 mm ²	750 V
	20 AWG – 6 AWG	300 V – 600 V
	1.5 – 4 mm ²	400 V – 750 V

Transformer Connectors



RKW 14 mini

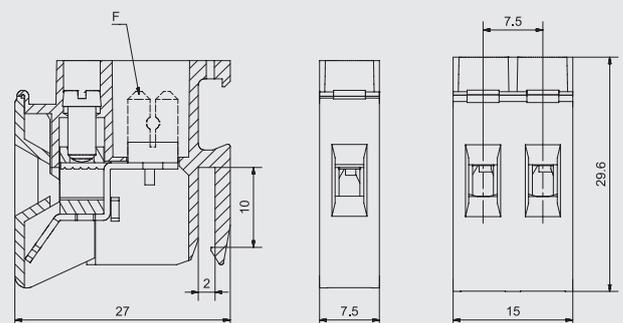
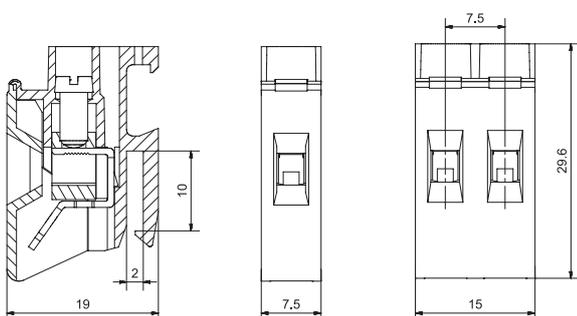


RKW 14

Connection: cable cage with screw
 conductor size 0.5 - 4.0 mm²
Fixing: to snap-in devices of the winding frame
Torque screw: M3.5: ⌀ max. 0.8 Nm
Stripping length: 7 - 7.5 mm
Important approvals: UL
Accessories: marking labels (page 94)
Upon request: different screws, center stop, glow wire polyamide to EN 60335-1

Connection: cable cage with screw
 conductor size 0.5 - 4.0 mm² or
 tab 6.3 x 0.8 mm resp. 2 x 2.8 x 0.8 mm
Fixing: to snap-in devices of the winding frame
Torque screw: M3.5: ⌀ max. 0.8 Nm
Stripping length: 10 - 11 mm
Important approvals: UL
Accessories: marking labels (page 94)
Upon request: different screws, center stop, glow wire polyamide to EN 60335-1

Description	Item	Order Number	PU	Description	Item	Order Number	PU
1 pole	RKW 14 mini O/ 1 grey	230101	500	with Tab	RKW 14 FO/ 1 grey	232301	500
	RKW 14 mini O/ 1 red	230181	500		RKW 14 FO/ 1 red	232381	500
	RKW 14 mini O/ 1 orange	230191	500		RKW 14 FO/ 1 orange	232391	500
2 pole	RKW 14 mini O/ 2 grey	230102	250	2 pole	RKW 14 FO/ 2 grey	232302	250
	RKW 14 mini O/ 2 red	230182	250		RKW 14 FO/ 2 red	232382	250
	RKW 14 mini O/ 2 orange	230192	250		RKW 14 FO/ 2 orange	232392	250
				without Tab			
1 pole				RKW 14 O/ 1 grey	232101	500	
				RKW 14 O/ 1 red	232181	500	
				RKW 14 O/ 1 orange	232191	500	
2 pole				RKW 14 O/ 2 grey	232102	250	
				RKW 14 O/ 2 red	232182	250	
				RKW 14 O/ 2 orange	232192	250	

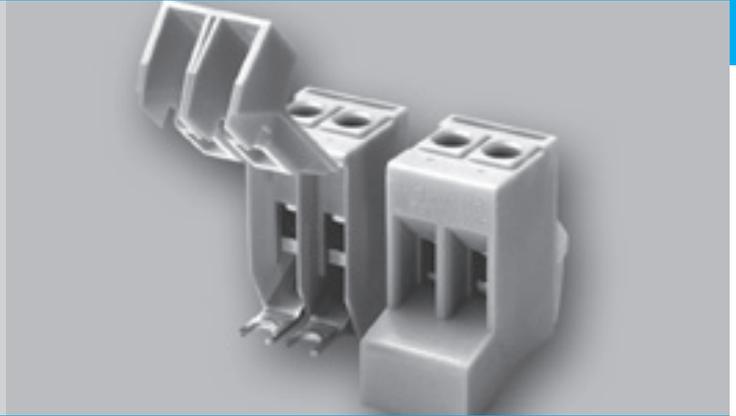


Transformer Connectors



RKW 14 Si O-20

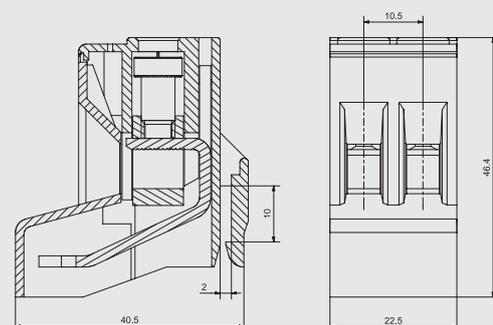
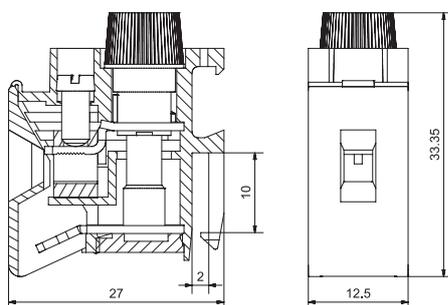
Connection: cable cage with screw
 conductor size 0.5 - 4.0 mm²
Fixing: to snap-in devices of the winding frame
Torque screw: M3.5: ⌀ max. 0.8 Nm
Stripping length: 7 - 7.5 mm
Fuse size: 5 x 20 mm, power dissipation 2,5 W at T 23 °C
Important approvals: UL
Accessories: marking labels (page 94)
Upon request: glow wire polyamide to EN 60335-1, for fuse links 6.3x32 mm, different screws



RKW 110

Connection: cable cage with Allen screw
 conductor size 2.5 - 16.0 mm²
Fixing: to snap-in devices of the winding frame
Torque screw: M6: ⌀ max. 2.5 Nm
Stripping length: 13 - 14 mm
Important approvals: VDE, UL
Accessories: marking labels (page 94)
Upon request: different screws

Item	Order Number	PU	Description	Item	Order Number	PU
RKW 14 Si O-20 red	271481	100	2 pole	RKW 110/ 2 grey	238002	25
RKW 14 Si O-20 orange	271491	100		RKW 110/ 2 red	238082	25
				RKW 110/ 2 orange	238092	25



Transformer Connectors



TC 2523 and TC 2533

- Connection:** screwless with spring cage terminal
conductor size 0.5 - 4,0 mm²
connection instructions as Internet-Download and as package insert
- Fixing:** to snap-in devices of the winding frame
- Stripping length:** 9 - 10 mm
- Interlocking:** by lateral pins to any required length and to fused connectors TC 2523 Si 20
- Important approvals:** VDE, cCSAus
- Accessories:** marking labels (page 94)
- Upon request:** 1 pole PE connector (yellow with green PE symbol), without lateral pins, interlocking to any required lengths



TC 2523 Si-20

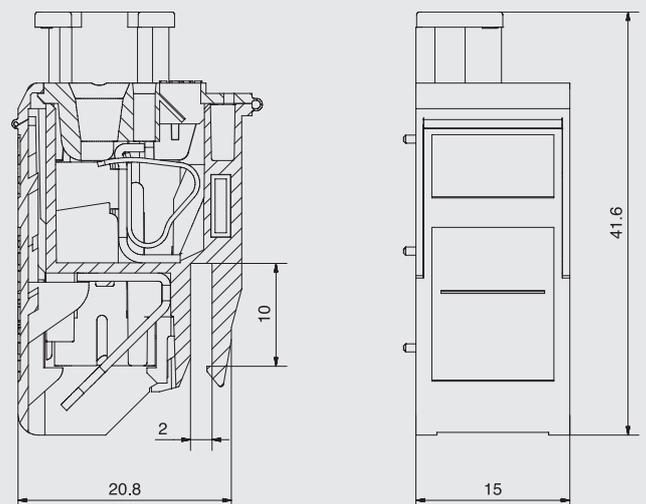
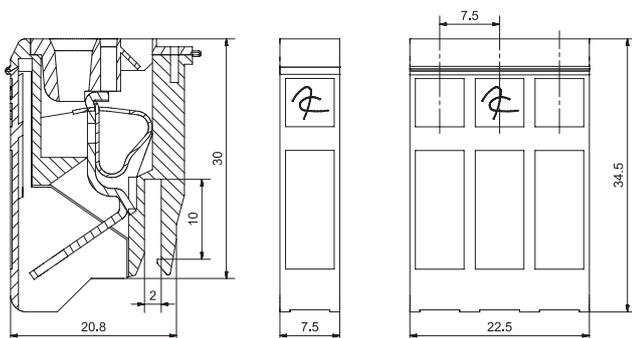
- Connection:** screwless by spring cage terminal
conductor size 0.5 - 4.0 mm²
connection instructions as Internet-Download and as package insert
- Fixing:** to snap-in devices of the winding frame
- Stripping length:** 9 - 10 mm
- Fuse size:** 5 x 20 mm, power dissipation 2.5 W at T 23 °C
- Interlocking:** by lateral pins to any required length, to 1 and 3 pole connectors TC 2523 and 2533
- Important approvals:** cCSAus
- Accessories:** marking labels (page 94)
- Upon request:** 1 pole fused connectors for fuse size 6.3 x 32 mm, without lateral pins, interlocking to any required lengths

Description	Item	Order Number	PU
1 pole	TC 2523/ 1 grey	252301	500
	TC 2523/ 1 orange	252391	500
3 pole	TC 2533 MONO/ 3 grey	253303	100
	TC 2533 MONO/ 3 orange	253393	100

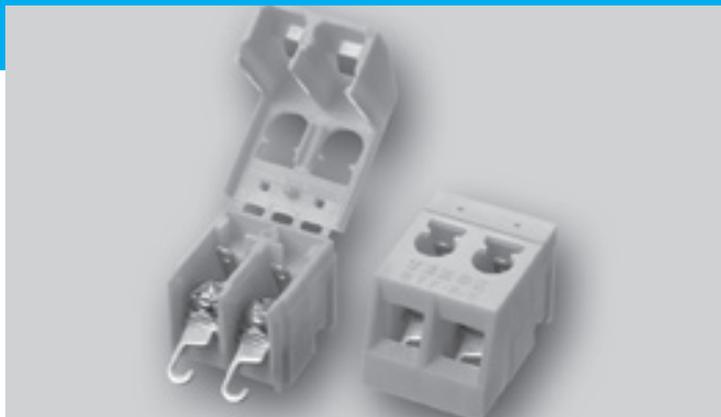
Description	Item	Order Number	PU
1 pole	TC 2523 Si-20 grey	258301	100
	TC 2523 Si-20 orange	258391	100



Here is our application video:



Transformer Connectors



BTF 2.5

Connection: screw-type terminals with solid conductors of size 0.5 - 2.5 mm² or tab 1 x 2.8 x 0.8

Fixing: to snap-in devices of the winding frame

Torque screw: M3,5: ⌀ max. 0.8 Nm

Stripping length: 9 - 9.5 mm

Important approvals: UL

Accessories: marking labels (page 94)



BTF 4

Connection: screw-type terminals with solid conductors of size 1.5 - 4.0 mm² or tab terminals for size 2 x 2.8 x 0.8 resp. 1 x 6.3 x 0.8 mm

Fixing: to snap-in devices of the winding frame

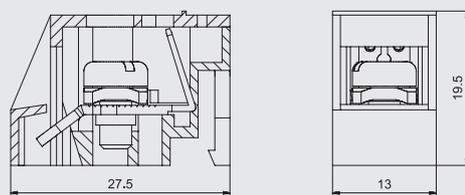
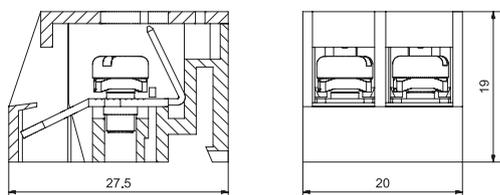
Torque screw: M4: ⌀ max. 1.2 Nm

Stripping length: 10 - 11 mm

Important approvals: UL

Accessories: marking labels (page 94)

Description	Item	Order Number	PU	Description	Item	Order Number	PU
2 pole	BTF 2,5 orange	282192	200	1 pole	BTF 4 orange	282391	200

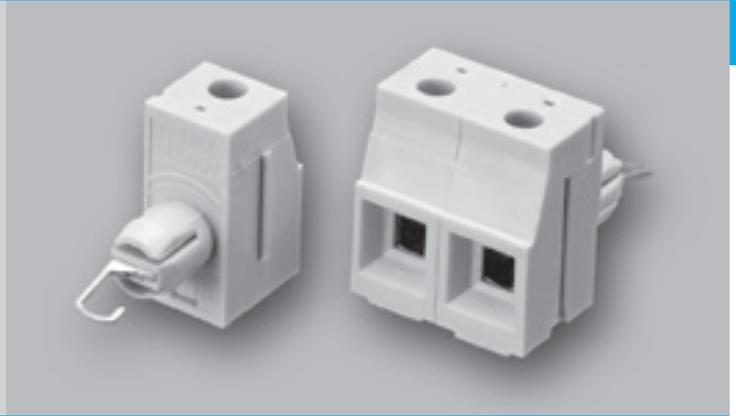


Transformer Connectors



BT 10

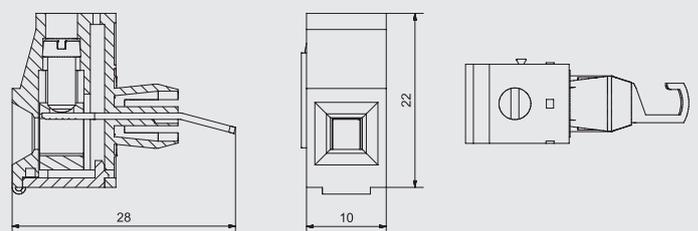
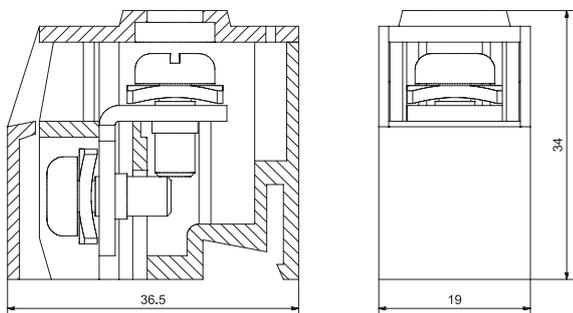
Connection: screw-type terminals
 with solid conductors of size 4.0 - 10.0 mm²
Torque screw: M5: \cup max. 2.0 Nm
Stripping length: 15 - 16 mm
Important approvals: UL
Accessories: marking labels (page 94)



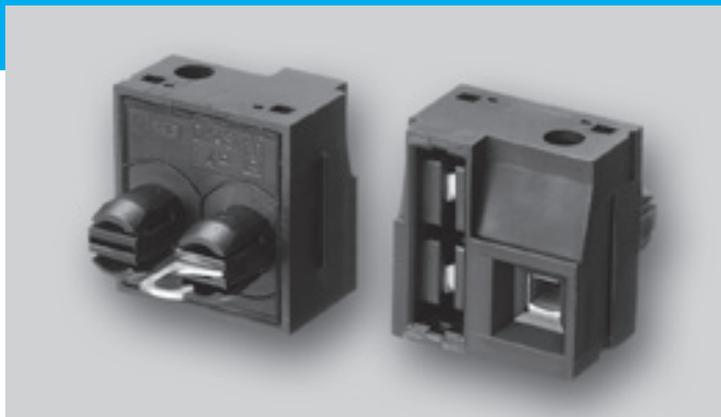
DK 4

Connection: cable cage with screw
 conductor size 0.5 - 4.0 mm²
Fixing: by pushing into the chassis of the compound-filled transformer
 hole size $\varnothing 7.2^{-0.1}$ mm, spacing 10,0 mm, wall thickness 1.2 - 4.0 mm
Torque screw: M3.5: \cup max. 0.8 Nm
Stripping length: 8.5 - 9 mm
Interlocking: by lateral dovetail to any required length (pin spacing 10.0 mm) and to fused connectors DK 4 Si
Important approvals: UL
Accessories: marking labels (page 94)
Upon request: 1 pole PE connectors (yellow with green PE symbol) printing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
1 pole	BT 10 orange	282591	100	1 pole	DK 4 0 grey	202101	500
					DK 4 0 black	202161	500

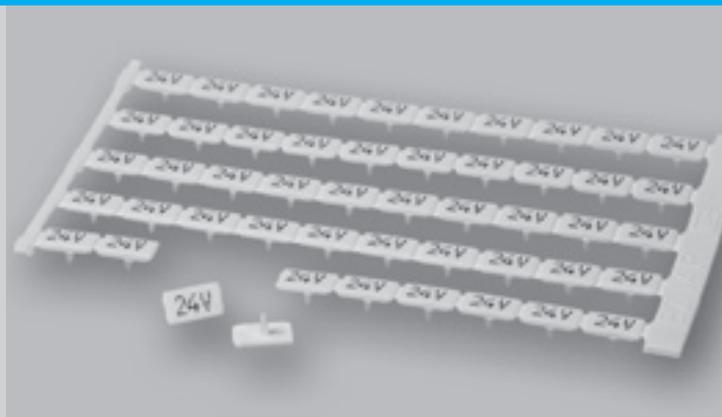


Transformer Connectors



DK 4 Si

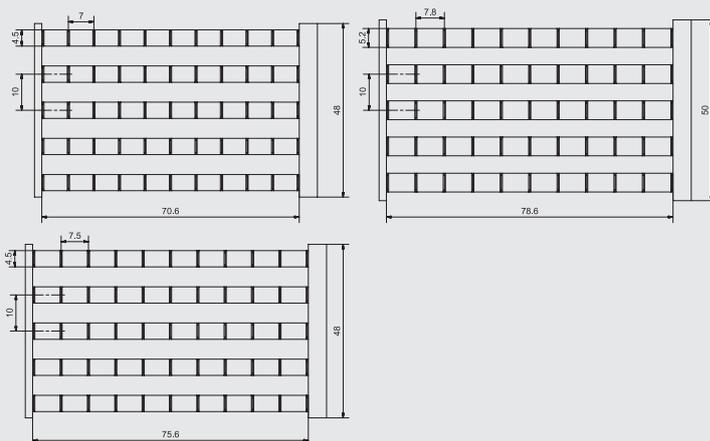
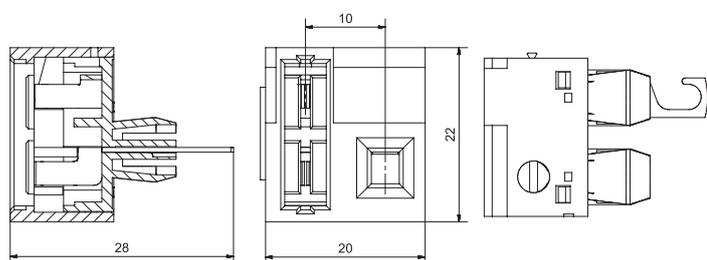
- Connection: cable cage with screw
conductor size 0.5 - 4.0 mm²
- Fixing: by pushing into the chassis of the compound-filled transformer
hole size $\varnothing 7.2^{-0.1} \text{ mm}$, spacing 10.0 mm, wall thickness 1.2 - 4.0 mm
- Torque screw: M3.5: \cup max. 0.8 Nm
- Stripping length: 8.5 - 9 mm
- Fuse size: commercial motor-car fuses to DIN 72581, constant current must not exceed 80 % of the current rating at T 23 °C
- Interlocking: by lateral dovetail to any required length (pin spacing 10.0 mm) and to connectors DK 4
- Important approvals: UL
- Accessories: marking labels (page 94)
- Upon request: printing



BZ 14, BZ 14 R and MT

- Fixing: BZ 14 - labels to be broken off 7.0 mm
BZ 14 R - strips with 10 labels 7.5 mm
MT - labels to be broken off 7.8 mm

Item	Order Number	PU	Description	Item	Order Number	PU
DK 4 Si 0 black	206161	250	for RKW 14 mini, RKW 14 (Si), RKW 110, TC 2523, TC 2533 and DK 4 (Si)			
			unprinted	BZ 14 U	293300	500
			printed to specification	BZ 14 B	2934..	500
			for RKW 14 mini, RKW 14, TC 2523 and TC 2533			
			unprinted	BZ 14 RU	293800	500
			printed to specification	BZ 14 RB	2939..	500
			BT and BTF			
			unprinted	MT-N	293500	500
			printed to specification	MT-B	2936..	500



(Pluggable) Print Connectors



Technical Information

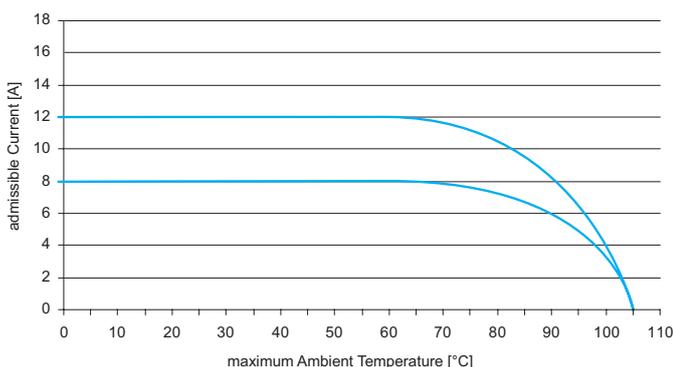
Applicable Standards

EN 60998
connecting devices for low-voltage circuits
EN 61984
plug and socket devices – safety requirements and tests

Current Rating

	EN 60998	EN 61984
GSK 720	13.5 A at T 85 °C	
GSK 820	15 A at T 85 °C	
GSK 801	24 A at T 85 °C	
GSK 805	24 A at T 85 °C	
GSK 830	24 A at T 85 °C	
GSK 840	20 A at T 85 °C	
GSK 845	24 A at T 85 °C	
GSK 850	24 A at T 85 °C	
GSK 852	24 A at T 85 °C	
GSK 880	24 A at T 85 °C	
GSK/GST 760		8 A at T 60 °C and max. 105 °C
GSK/GST 860		12 A at T 60 °C and max. 105 °C
GSK/GST 864		8 A at T 60 °C and max. 105 °C
GSK/GST 865		12 A at T 60 °C and max. 105 °C

Derating Curve



Plastic Material

PBT, GV 30 blue
flammability rating to UL 94: V-0
continuous working temperature 120 °C, short-time temperature 200 °C
exceptional cases:
GSK 801 and GSK 805: polyamide 6/6, flammability rating to UL 94: V-2,
continuous working temperature 100 °C, short-time temperature 160 °C

Metal

clamping pieces and solder pins: brass, tinned
clamping screws : steel, zinc plated, chromed
wire protectors: spring steel
contact springs: tin bronze, tinned

Important Approvals

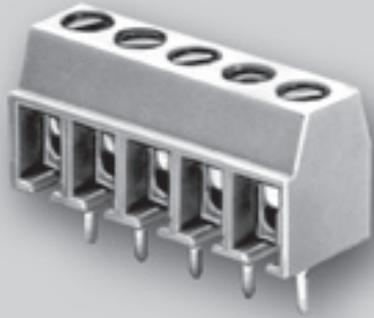
For current approvals, please see the relative data sheets of each item on our website.

Approvals	Nominal Cross Section	Voltage Rating
	1.0 – 2.5 mm ²	125 – 250 V
	26 AWG – 12 AWG	300 V

PCB Connectors for LED Boards

On pages 14 – 16

PCB Connectors



GSK 720 V Pin Spacing 3.5 mm

Connection: screw
 conductor size 0.5 - 1.0 mm² (with wire protector)
 conductor size 0.5 - 1.5 mm² (without wire protector)

Fixing: vertical connection to pc-board for connection of conductor from the front

Torque screw: M2: ⌀ max. 0.2 Nm

Stripping length: 4 - 4.5 mm

Length solder pin: 3.6 mm

Eyelet/mounting hole: Ø 1 mm

Important approvals: VDE, UL

Upon request: 7 - 16 pole (pin spacing 3.5 mm), pin spacing 7.0 mm, printing, different solder pin lengths, different colours, irregular spacing



GSK 720 H Pin Spacing 3.5 mm

Connection: screw
 conductor size 0.5 - 1.0 mm² (with wire protector)
 conductor size 0.5 - 1.5 mm² (without wire protector)

Fixing: horizontal connection to pc-board for connection of conductor from above

Torque screw: M2: ⌀ max. 0.2 Nm

Stripping length: 4 - 4.5 mm

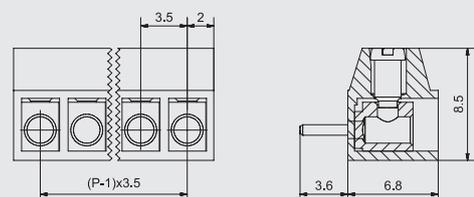
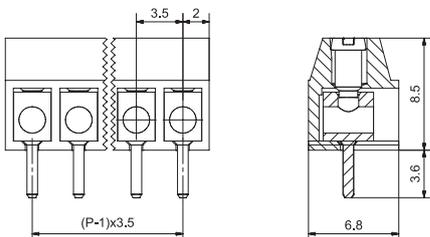
Length solder pin: 3.6 mm

Eyelet/mounting hole: Ø 1 mm

Important approvals: VDE, UL

Upon request: 7 - 16 pole (pin spacing 3.5 mm), pin spacing 7.0 mm, printing, different solder pin lengths, different colours, irregular spacing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Pin Spacing 3.5 mm with Wire Protectors				Pin Spacing 3.5 mm with Wire Protectors			
2 pole	GSK 720 V/ 2 DS	314102	1000	2 pole	GSK 720 H/ 2 DS	314502	1000
3 pole	GSK 720 V/ 3 DS	314103	1000	3 pole	GSK 720 H/ 3 DS	314503	1000
4 pole	GSK 720 V/ 4 DS	314104	500	4 pole	GSK 720 H/ 4 DS	314504	500
5 pole	GSK 720 V/ 5 DS	314105	500	5 pole	GSK 720 H/ 5 DS	314505	500
6 pole	GSK 720 V/ 6 DS	314106	500	6 pole	GSK 720 H/ 6 DS	314506	500
Pin Spacing 3.5 mm without Wire Protectors				Pin Spacing 3.5 mm without Wire Protectors			
2 pole	GSK 720 V/ 2	314002	1000	2 pole	GSK 720 H/ 2	314402	1000
3 pole	GSK 720 V/ 3	314003	1000	3 pole	GSK 720 H/ 3	314403	1000
4 pole	GSK 720 V/ 4	314004	500	4 pole	GSK 720 H/ 4	314404	500
5 pole	GSK 720 V/ 5	314005	500	5 pole	GSK 720 H/ 5	314405	500
6 pole	GSK 720 V/ 6	314006	500	6 pole	GSK 720 H/ 6	314406	500





GSK 820 V Pin Spacing 5.0 and 10.0 mm

Connection: screw
 conductor size 0.5 - 1.5 mm² (with wire protector)
 conductor size 0.5 - 2.5 mm² (without wire protector)

Fixing: vertical connection to pc-board for connection of conductor from the front

Torque screw: M2,6: ⤵ max. 0.4 Nm

Stripping length: 4.5 - 5 mm

Length solder pin: 4.1 mm

Eyelet/mounting hole: Ø 1.3 mm

Interlocking: with moulded dovetail on one side

Important approvals: VDE, UL

Upon request: interlocking to any required lengths, printing, different solder pin lengths, different colours, irregular spacing, different screws

GSK 820 H Pin Spacing 5.0 and 10.0 mm

Connection: screw
 conductor size 0.5 - 1.5 mm² (with wire protector)
 conductor size 0.5 - 2.5 mm² (without wire protector)

Fixing: horizontal connection to pc-board for connection of conductor from above

Torque screw: M2,6: ⤵ max. 0.4 Nm

Stripping length: 4.5 - 5 mm

Length solder pin: 3.7 mm

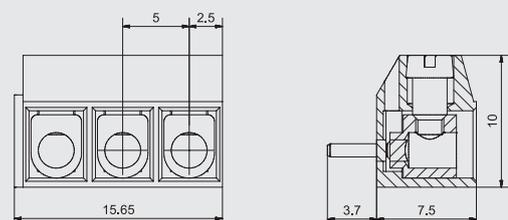
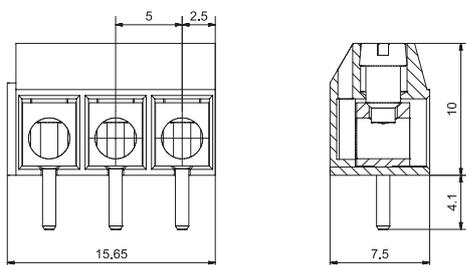
Eyelet/mounting hole: Ø 1.3 mm

Interlocking: with moulded dovetail on one side

Important approvals: VDE, UL

Upon request: interlocking to any required lengths, printing, different solder pin lengths, different colours, irregular spacing, different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole) with Wire Protectors				Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole) with Wire Protectors			
2 pole	GSK 820 V/ 2 DS	324102	1000	2 pole	GSK 820 H/ 2 DS	324502	1000
3 pole	GSK 820 V/ 3 DS	324103	500	3 pole	GSK 820 H/ 3 DS	324503	500
Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole) without Wire Protectors				Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole) without Wire Protectors			
2 pole	GSK 820 V/ 2	324002	1000	2 pole	GSK 820 H/ 2	324402	1000
3 pole	GSK 820 V/ 3	324003	500	3 pole	GSK 820 H/ 3	324403	500
Pin Spacing 10,0 mm with Wire Protectors				Pin Spacing 10,0 mm with Wire Protectors			
1 pole	GSK 820 V/ 2-1 DS	325101	1000	1 pole	GSK 820 H/ 2-1 DS	325501	1000
2 pole	GSK 820 V/ 3-2 DS	325102	500	2 pole	GSK 820 H/ 3-2 DS	325502	500
Pin Spacing 10,0 mm without Wire Protectors				Pin Spacing 10,0 mm without Wire Protectors			
1 pole	GSK 820 V/ 2-1	325001	1000	1 pole	GSK 820 H/ 2-1	325401	1000
2 pole	GSK 820 V/ 3-2	325002	500	2 pole	GSK 820 H/ 3-2	325402	500



PCB Connectors



GSK 830 V Pin Spacing 5.0 and 10.0 mm

GSK 830 H Pin Spacing 5.0 and 10.0 mm

Connection: screw
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 4.0 mm² (without wire protector)

Fixing: vertical connection to pc-board for connection of conductor from the front

Torque screw: M3: ⌀ max. 0.5 Nm

Stripping length: 4.5 - 5 mm

Length solder pin: 4.5 mm

Eyelet/mounting hole: Ø 1.3 mm

Interlocking: with moulded dovetail on one side

Important approvals: VDE, UL

Upon request: interlocking to any required lengths, printing, different solder pin lengths, different colours, irregular spacing, different screws

Connection: screw
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 4.0 mm² (without wire protector)

Fixing: horizontal connection to pc-board for connection of conductor from above

Torque screw: M3: ⌀ max. 0.5 Nm

Stripping length: 4.5 - 5 mm

Length solder pin: 4.5 mm

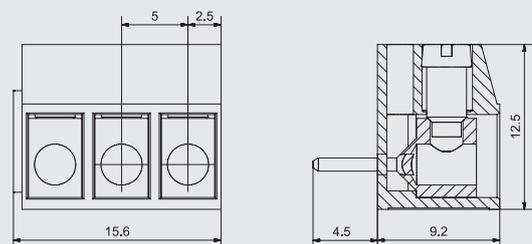
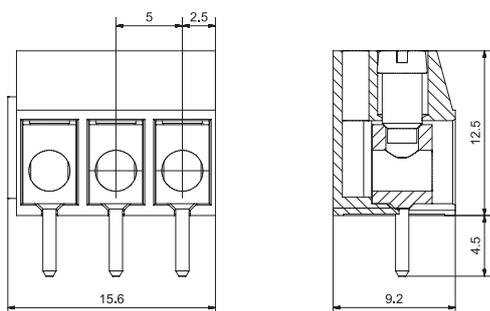
Eyelet/mounting hole: Ø 1.3 mm

Interlocking: with moulded dovetail on one side

Important approvals: VDE, UL

Upon request: interlocking to any required lengths, printing, different solder pin lengths, different colours, irregular spacing, different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole) with Wire Protectors				Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole) with Wire Protectors			
2 pole	GSK 830 V/ 2 DS	326102	500	2 pole	GSK 830 H/ 2 DS	326502	500
3 pole	GSK 830 V/ 3 DS	326103	500	3 pole	GSK 830 H/ 3 DS	326503	500
Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole) without Wire Protectors				Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole) without Wire Protectors			
2 pole	GSK 830 V/ 2	326002	500	2 pole	GSK 830 H/ 2	326402	500
3 pole	GSK 830 V/ 3	326003	500	3 pole	GSK 830 H/ 3	326403	500
Pin Spacing 10.0 mm with Wire Protectors				Pin Spacing 10.0 mm with Wire Protectors			
1 pole	GSK 830 V/ 2-1 DS	327101	500	1 pole	GSK 830 H/ 2-1 DS	327501	500
2 pole	GSK 830 V/ 3-2 DS	327102	500	2 pole	GSK 830 H/ 3-2 DS	327502	500
Pin Spacing 10.0 mm without Wire Protectors				Pin Spacing 10.0 mm without Wire Protectors			
1 pole	GSK 830 V/ 2-1	327001	500	1 pole	GSK 830 H/ 2-1	327401	500
2 pole	GSK 830 V/ 3-2	327002	500	2 pole	GSK 830 H/ 3-2	327402	500





GSK 840 V Pin Spacing 5.0 and 10.0 mm

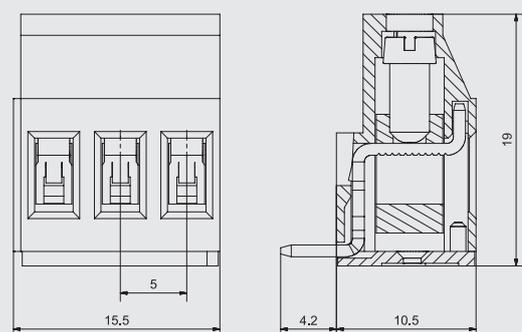
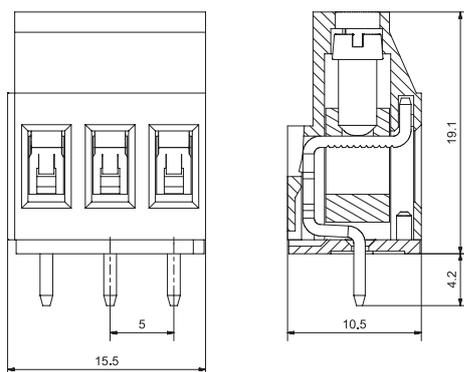
GSK 840 H Pin Spacing 5.0 and 10.0 mm

Connection: cable cage with screw
 conductor size 0.5 - 4.0 mm²
Fixing: vertical connection to pc-board for connection of conductor from the front
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 7.5 - 8 mm
Length solder pin: 4.2 mm
Eyelet/mounting hole: Ø 1.3 mm
Interlocking: with moulded dovetail on one side
Important approvals: VDE, UL
Upon request: interlocking to any required lengths, printing, different screws, different colours, irregular spacing, without bottom plate, nubs protecting against torsion

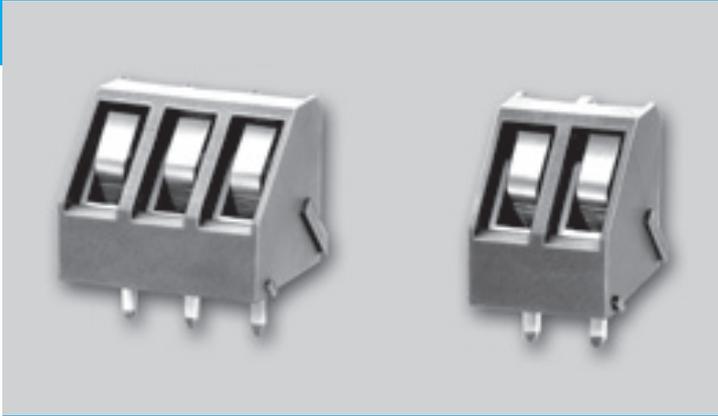
Connection: cable cage with screw
 conductor size 0.5 - 4.0 mm²
Fixing: horizontal connection to pc-board for connection of conductor from above
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 7.5 - 8 mm
Length solder pin: 4.2 mm
Eyelet/mounting hole: Ø 1.3 mm
Interlocking: with moulded dovetail on one side
Important approvals: VDE, UL
Upon request: interlocking to any required lengths, printing, different screws, different colours, irregular spacing, without bottom plate

Description	Item	Order Number	PU
Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole)			
2 pole	GSK 840 V/ 2	332002	500
3 pole	GSK 840 V/ 3	332003	250
Earthing Connectors Pin Spacing 5.0 mm with Bridged Contacts			
2 pole	GSK 840 E VO/ 2 green	332982	500
3 pole	GSK 840 E VO/ 2 green	332983	250
Pin Spacing 10.0 mm			
1 pole	GSK 840 V/ 2-1	333001	500
2 pole	GSK 840 V/ 3-2	333002	250

Description	Item	Order Number	PU
Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole)			
2 pole	GSK 840 H/ 2	332402	500
3 pole	GSK 840 H/ 3	332403	250
Pin Spacing 10.0 mm			
1 pole	GSK 840 H/ 2-1	333401	500
2 pole	GSK 840 H/ 3-2	333402	250



PCB Connectors



GSK 845 Pin Spacing 5.0 and 10.0 mm

Connection: cable cage with screw
conductor size 0.5 - 2.5 mm²

Fixing: vertical connection to pc-board for connection of conductor at an 45° angle

Torque screw: M2.6: ⌀ max. 0.4 Nm

Stripping length: 6 - 6.5 mm

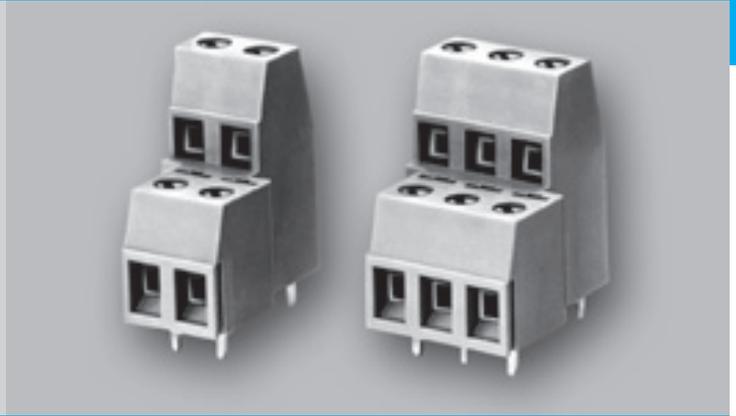
Length solder pin: 4.5 mm

Eyelet/mounting hole: Ø 1.3 mm

Interlocking: with moulded dovetail on one side

Important approvals: VDE, UL

Upon request: interlocking to any required lengths, printing, different colours, irregular spacing



GSK 852 Pin Spacing 5.0 and 10.0 mm

Connection: 2 x cable cage with screw on two staggered tiers
conductor size 0.5 - 2.5 mm²

Fixing: vertical connection to pc-board for connection of conductor from the front

Torque screw: M3: ⌀ max. 0.5 Nm

Stripping length: 6.5 - 7 mm

Length solder pin: 3.6 mm

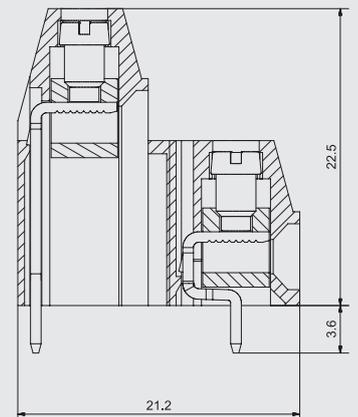
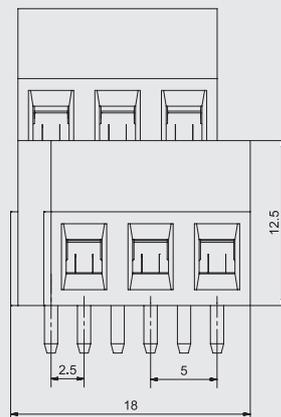
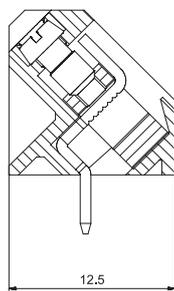
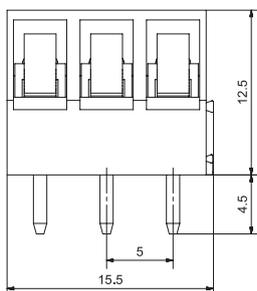
Eyelet/mounting hole: Ø 1.3 mm

Interlocking: with moulded dovetail on one side

Important approvals: VDE, UL

Upon request: interlocking to any required lengths, printing, different screws, different colours, irregular spacing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole)				Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole)			
2 pole	GSK 845/ 2	334002	500	2 pole	GSK 852/ 2	346002	200
3 pole	GSK 845/ 3	334003	250	3 pole	GSK 852/ 3	346003	100
Pin Spacing 10.0 mm				Pin Spacing 10.0 mm			
1 pole	GSK 845/ 2-1	335001	500	1 pole	GSK 852/ 2-1	347001	200
2 pole	GSK 845/ 3-2	335002	250	2 pole	GSK 852/ 3-2	347002	100





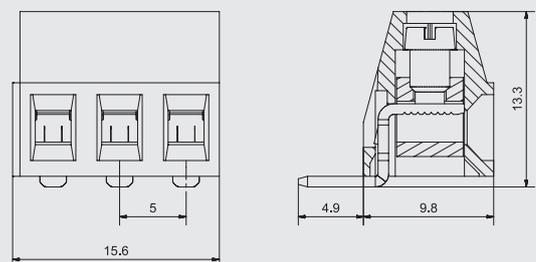
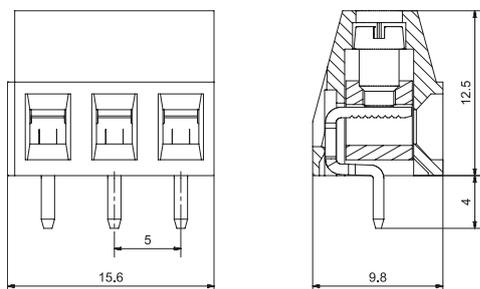
GSK 850 V Pin Spacing 5.0 and 10.0 mm

GSK 850 H Pin Spacing 5.0 and 10.0 mm

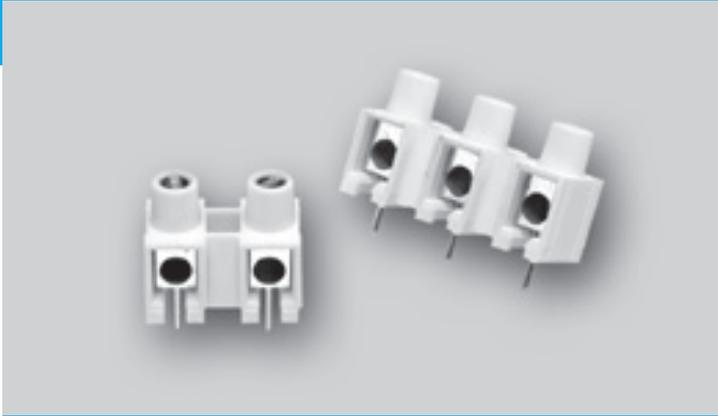
Connection: cable cage with screw
 conductor size 0.5 - 2.5 mm²
Fixing: vertical connection to pc-board for connection of conductor from the front
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 6.5 - 7 mm
Length solder pin: 4.0 mm
Eyelet/mounting hole: Ø 1.3 mm
Interlocking: with moulded dovetail on one side
Important approvals: VDE, UL
Upon request: interlocking to any required lengths, printing, different solder pin lengths, different colours, irregular spacing, nubs protecting against torsion, different screws

Connection: cable cage with screw
 conductor size 0.5 - 2.5 mm²
Fixing: horizontal connection to pc-board for connection of conductor from above
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 6.5 - 7 mm
Length solder pin: 4.9 mm
Eyelet/mounting hole: Ø 1.3 mm
Interlocking: with moulded dovetail on one side
Important approvals: VDE, UL
Upon request: interlocking to any required lengths, printing, different solder pin lengths, different colours, irregular spacing, different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole)				Pin Spacing 5.0 mm (or 5.08 mm up to 6 pole)			
2 pole	GSK 850 V/ 2	336002	500	2 pole	GSK 850 H/ 2	336402	500
3 pole	GSK 850 V/ 3	336003	500	3 pole	GSK 850 H/ 3	336403	500
Pin Spacing 10.0 mm				Pin Spacing 10.0 mm			
1 pole	GSK 850 V/ 2-1	337001	500	1 pole	GSK 850 H/ 2-1	337401	500
2 pole	GSK 850 V/ 3-2	337002	500	2 pole	GSK 850 H/ 3-2	337402	500



PCB Connectors



GSK 801 Pin Spacing 10.0 mm

Connection: screw
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 6.0 mm² (without wire protector)

Fixing: vertical connection to pc-board for connection of conductor from the front

Torque screw: M3: ⌀ max. 0.5 Nm

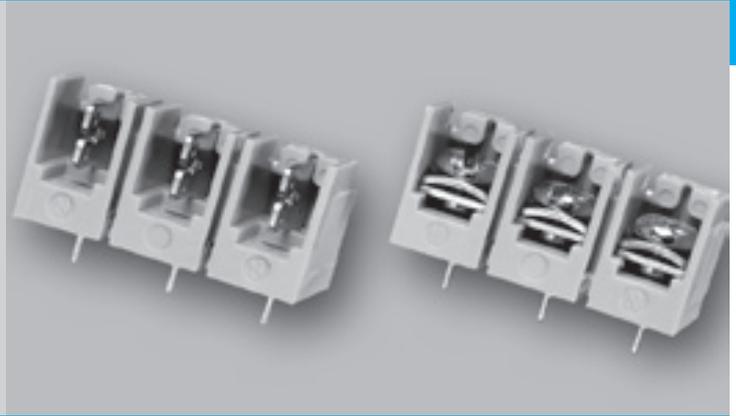
Stripping length: 6.5 - 7 mm

Length solder pin: 4.5 mm

Eyelet/mounting hole: Ø 1.3 mm

Important approvals: UL

Upon request: 7 - 11 pole, different solder pin lengths, irregular spacing, different screws, without engraving



GSK 805 Pin Spacing 10.0 mm

Connection: Screw with clamping piece 0.5 - 4.0 mm²

Fixing: vertical connection to pc-board for connection of conductor from the front

Torque screw: M3.5: ⌀ max. 0.8 Nm

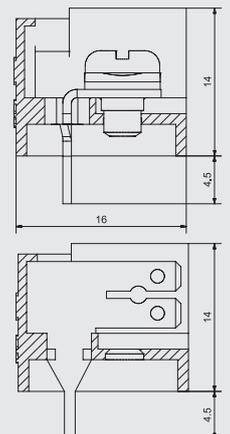
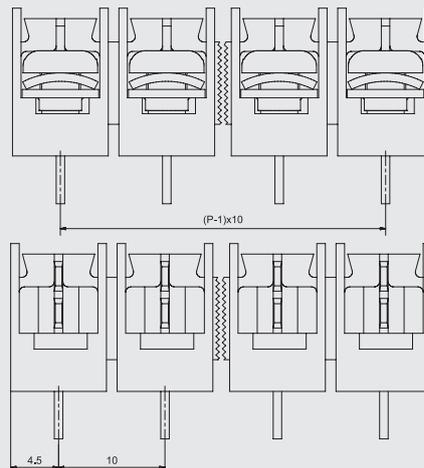
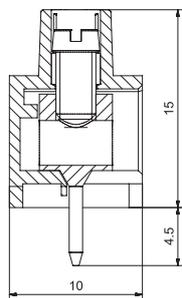
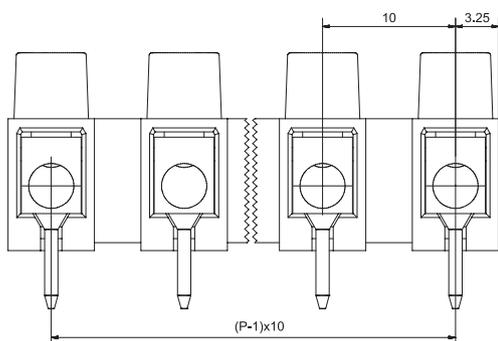
Stripping length: 12 - 12.5 mm

Length solder pin: 4.5 mm

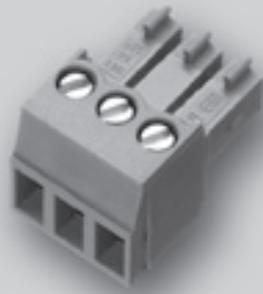
Eyelet/mounting hole: Ø 1.3 mm

Upon request: 7 - 11 pole, with tab type, irregular spacing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				Screw Type			
2 pole	GSK 801/ 2 DS	321702	500	2 pole	GSK 805/ 2 SCH	323202	250
3 pole	GSK 801/ 3 DS	321703	500	3 pole	GSK 805/ 3 SCH	323203	200
4 pole	GSK 801/ 4 DS	321704	500	4 pole	GSK 805/ 4 SCH	323204	500
5 pole	GSK 801/ 5 DS	321705	500	5 pole	GSK 805/ 5 SCH	323205	100
6 pole	GSK 801/ 6 DS	321706	500	6 pole	GSK 805/ 6 SCH	323206	100
12 pole	GSK 801/12 DS	321712	100	12 pole	GSK 805/12 SCH	323212	50
without Wire Protectors							
2 pole	GSK 801/ 2	321602	500				
3 pole	GSK 801/ 3	321603	500				
4 pole	GSK 801/ 4	321604	500				
5 pole	GSK 801/ 5	321605	500				
6 pole	GSK 801/ 6	321606	500				
12 pole	GSK 801/12	321612	100				



Pluggable PCB Connectors



GSK 760 Pin Spacing 3.5 mm

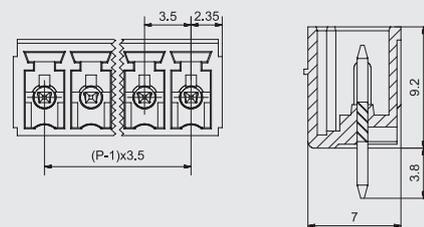
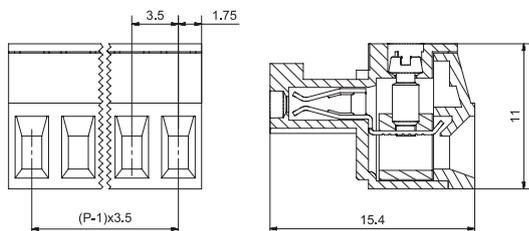
Connection: cable cage with screw
 conductor size 0.5 - 1.5 mm²
Fixing: plug-in connectors for snap-fit with headers
 GST 760
Coding: by inserting a polarizing pin into the header and cutting off the rib on the plug-in connector
Torque screw: M2: \cup max. 0.2 Nm
Stripping length: 6 - 6.5 mm
Important approvals: VDE, UL
Accessories: Headers (page 103, 104)
Upon request: 7 - 12 pole (pin spacing 3.5 mm), pin spacing 7.0 mm, printing, different colours, irregular spacing



GST 760 V Pin Spacing 3.5 mm

Connection: headers for snap-fit with plug-in connectors
 GSK 760
Fixing: vertical connection to pc-board for connection of plug-in connectors from above
Coding: by inserting a polarizing pin into the header and cutting off the rib on the plug-in connector
Length solder pin: 3.8 mm
Eyelet/mounting hole: \varnothing 1.2 mm
Important approvals: VDE, UL
Accessories: plug-in connectors (page 103)
Upon request: 7 - 24 pole (pin spacing 3.5 mm), pin spacing 7.0 mm, printing, different colours, irregular spacing, polarizing pins (order no. 398106)

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Pin Spacing 3.5 mm				Pin Spacing 3.5 mm			
2 pole	GSK 760/ 2	362002	500	2 pole	GST 760 VG/ 2	366102	500
3 pole	GSK 760/ 3	362003	250	3 pole	GST 760 VG/ 3	366103	500
4 pole	GSK 760/ 4	362004	250	4 pole	GST 760 VG/ 4	366104	400
5 pole	GSK 760/ 5	362005	200	5 pole	GST 760 VG/ 5	366105	300
6 pole	GSK 760/ 6	362006	150	6 pole	GST 760 VG/ 6	366106	250



Pluggable PCB Connectors



GST 760 H Pin Spacing 3.5 mm

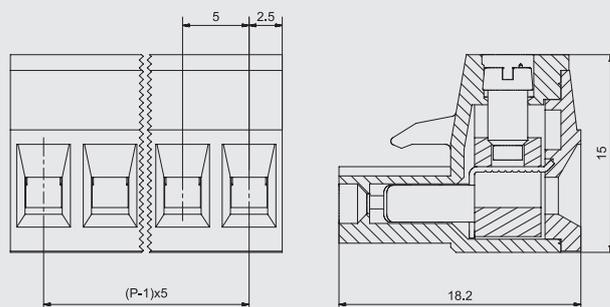
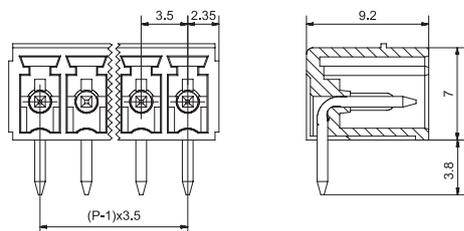
Connection: headers for snap-fit with plug-in connectors GSK 760
Fixing: horizontal connection to pc-board for connection of plug-in connectors from the front
Coding: by inserting a polarizing pin into the header and cutting off the rib on the plug-in connector
Length solder pin: 3.8 mm
Eyelet/mounting hole: Ø 1.2 mm
Accessories: plug-in connectors (page 103)
Upon request: 7 - 24 pole (pin spacing 3.5 mm), pin spacing 7.0 mm, printing, different colours, irregular spacing, polarizing pins (order no. 398106)



GSK 860 Pin Spacing 5.0 mm

Connection: cable cage with screw
 conductor size 0.5 - 2.5 mm²
Fixing: plug-in connectors for snap-fit with headers GSK 860
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 6.5 - 7 mm
Important approvals: VDE, UL
Accessories: headers. (page 105)
Upon request: 7 - 12 pole, pin spacing 10.0 mm, printing, different colours, irregular spacing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Pin Spacing 3.5 mm				Pin Spacing 5.0 mm			
2 pole	GST 760 HG/ 2	366602	500	2 pole	GSK 860/ 2	364002	500
3 pole	GST 760 HG/ 3	366603	500	3 pole	GSK 860/ 3	364003	250
4 pole	GST 760 HG/ 4	366604	400	4 pole	GSK 860/ 4	364004	250
5 pole	GST 760 HG/ 5	366605	300	5 pole	GSK 860/ 5	364005	200
6 pole	GST 760 HG/ 6	366606	250	6 pole	GSK 860/ 6	364006	150



Pluggable PCB Connectors



GST 860 V Pin Spacing 5.0 mm

Connection: headers for snap-fit with plug-in connectors GSK 860
additional option: snap-fit to catching ribs on both sides (VR) by latches (RH)

Fixing: vertical connection to pc-board for connection of plug-in connectors from above
additional option: screw fixing by means of a catching rib on both sides (VR) and fastening block (BF) for screw M2

Length solder pin: 5.0 mm
Eyelet/mounting hole: Ø 1.4 mm
Important approvals: VDE, UL
Accessories: plug-in connectors (page 104)
Upon request: 7 - 24 pole, pin spacing 10.0 mm, with catching ribs on both sides, different colours, irregular spacing



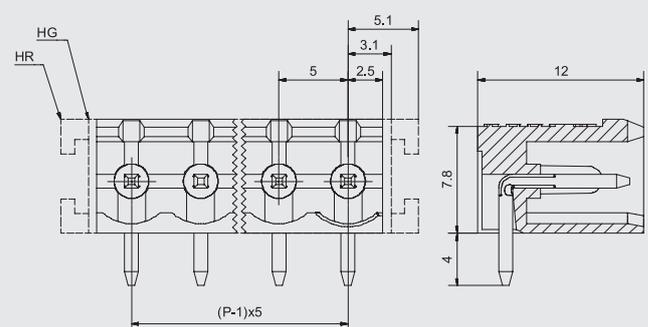
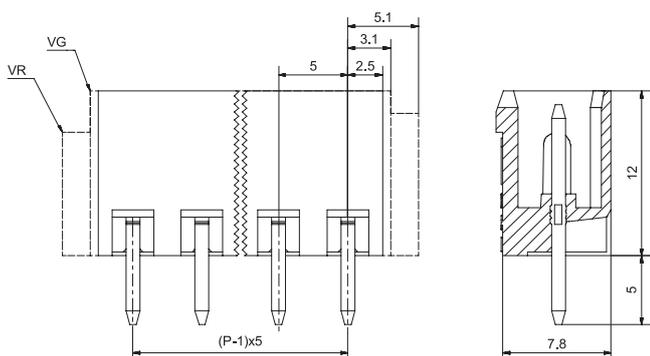
GST 860 H Pin Spacing 5.0 mm

Connection: headers for snap-fit with plug-in connectors GSK 860
additional option: snap-fit to catching ribs on both sides (VR) by latches (RH)

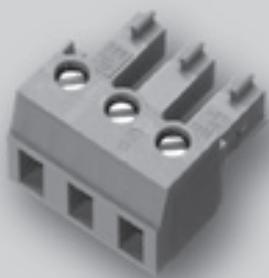
Fixing: horizontal connection to pc-board for connection of plug-in connectors from the front
additional option: screw fixing by means of a catching rib on both sides (VR) and fastening block (BF) for screw M2

Length solder pin: 4.0 mm
Eyelet/mounting hole: Ø 1.4 mm
Important approvals: VDE, UL
Accessories: plug-in connectors (page 104)
Upon request: 7 - 24 pole, pin spacing 10.0 mm, with catching ribs on both sides, different colours, irregular spacing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Side Walls				with Side Walls			
2 pole	GST 860 VG/ 2	368102	500	2 pole	GST 860 HG/ 2	368602	500
3 pole	GST 860 VG/ 3	368103	500	3 pole	GST 860 HG/ 3	368603	500
4 pole	GST 860 VG/ 4	368104	500	4 pole	GST 860 HG/ 4	368604	500
5 pole	GST 860 VG/ 5	368105	400	5 pole	GST 860 HG/ 5	368605	400
6 pole	GST 860 VG/ 6	368106	300	6 pole	GST 860 HG/ 6	368606	300
without Side Walls (Interlocking with no Loss in Space)				without Side Walls (Interlocking with no Loss in Space)			
2 pole	GST 860 VO/ 2	368002	500	2 pole	GST 860 HO/ 2	368502	500
3 pole	GST 860 VO/ 3	368003	500	3 pole	GST 860 HO/ 3	368503	500
4 pole	GST 860 VO/ 4	368004	500	4 pole	GST 860 HO/ 4	368504	500
5-pole	GST 860 VO/ 5	368005	400	5 pole	GST 860 HO/ 5	368505	400
6 pole	GST 860 VO/ 6	368006	300	6 pole	GST 860 HO/ 6	368506	300
Accessories				Accessories			
Latches	GSK 860 RH	398030	100	Latches	GSK 860 RH	398030	100
Fastening blocks	GSK 860 BF	398020	100	Fastening blocks	GSK 860 BF	398020	100



Pluggable PCB Connectors



GSK 864 Pin Spacing 5.08 mm

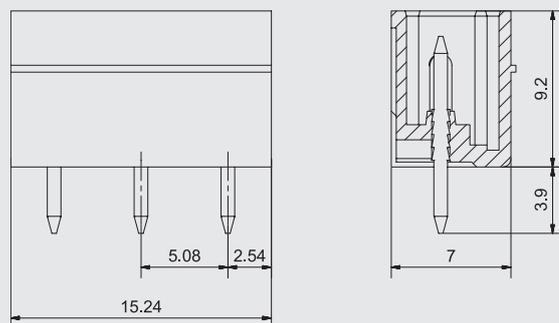
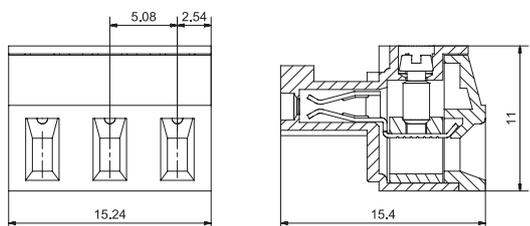
Connection: cable cage with screw
 conductor size 0.5 - 1.5 mm²
Fixing: plug-in connectors for snap-fit with headers
 GST 864
Torque screw: M2: \varnothing max. 0.2 Nm
Stripping length: 6 - 6.5 mm
Important approvals: VDE, UL
Accessories: headers (page 107, 106)
Upon request: 4 - 12 pole, pin spacing 10.16 mm, printing, different colours, irregular spacing



GST 864 V Pin Spacing 5.08 mm

Connection: headers for snap-fit with plug-in connectors GSK 864
Fixing: vertical connection to pc-board for connection of plug-in connectors from above
Coding: by inserting a polarizing pin into the header and cutting off the rib on the plug-in connector
Length solder pin: 3.9 mm
Eyelet/mounting hole: \varnothing 1.2 mm
Accessories: plug-in connectors (page 106)
Upon request: 4 - 12 pole, pin spacing 10.16 mm, different colours, irregular spacing, polarizing pins (order no. 398106)

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Pin Spacing 5.08 mm				Pin spacing 5.08 mm			
2 pole	GSK 864/ 2	373402	500	2 pole	GST 864 VG/ 2	377502	500
3 pole	GSK 864/ 3	373403	250	3 pole	GST 864 VG/ 3	377503	500



Pluggable PCB Connectors



GST 864 H Pin Spacing 5.08 mm

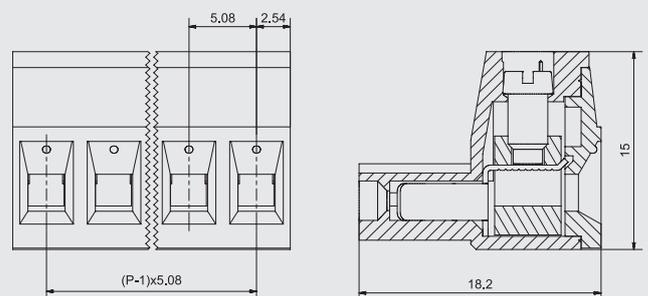
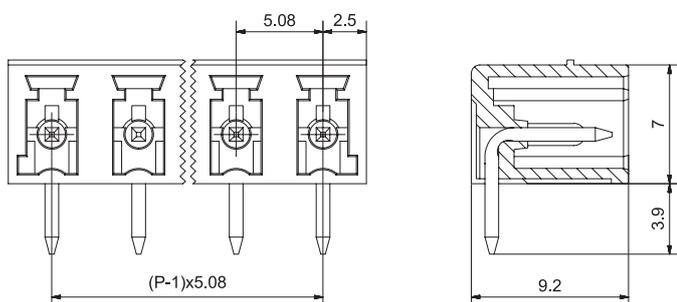
Connection: headers for snap-fit with plug-in connectors GSK 864
Fixing: horizontal connection to pc-board for connection of plug-in connectors from the front
Coding: by inserting a polarizing pin into the header and cutting off the rib on the plug-in connector
Length solder pin: 3.9 mm
Eyelet/mounting hole: Ø 1.2 mm
Accessories: plug-in connectors (page 106)
Upon request: 4 - 12 pole, pin spacing 10.16 mm, different colours, irregular spacing, polarizing pins (order no. 398106)



GSK 865 Pin Spacing 5.08 mm

Connection: cable cage with screw conductor size 0.5 - 2.5 mm²
Fixing: plug-in connectors for snap-fit with headers GSK 865
Torque screw: M3: ⌀ max. 0.5 Nm
Stripping length: 6.5 - 7 mm
Important approvals: VDE, UL
Accessories: headers (page 108)
Upon request: 7 - 12 pole, pin spacing 10.16 mm, printing, different colours, irregular spacing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
Pin spacing 5.08 mm				Pin Spacing 5.08 mm			
2 pole	GST 864 HG/ 2	377602	500	2 pole	GSK 865/ 2	374002	500
3 pole	GST 864 HG/ 3	377603	500	3 pole	GSK 865/ 3	374003	250
				4 pole	GSK 865/ 4	374004	250
				5 pole	GSK 865/ 5	374005	200
				6 pole	GSK 865/ 6	374006	150

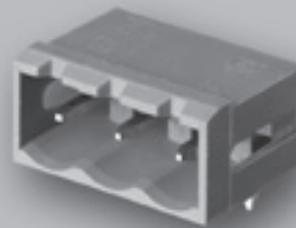


Pluggable PCB Connectors



GST 865 V Pin Spacing 5.08 mm

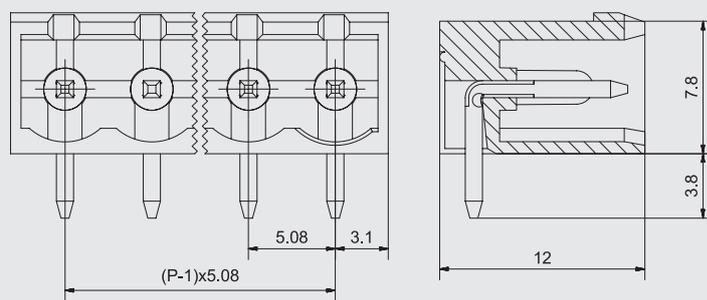
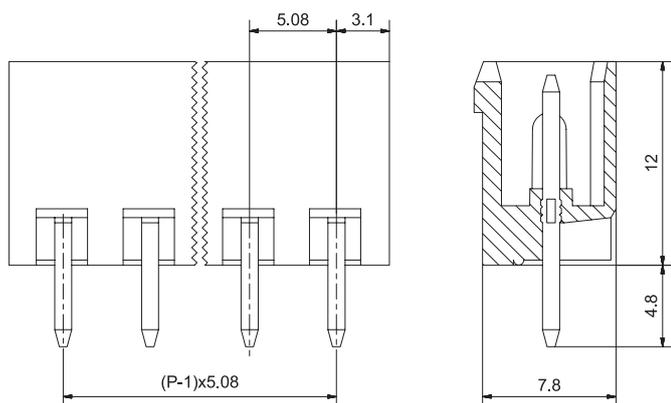
Connection: headers for snap-fit with plug-in connectors GSK 865
 Fixing: vertical connection to pc-board for connection of plug-in connectors from above
 Length solder pin: 4.8 mm
 Eyelet/mounting hole: Ø 1.4 mm
 Important approvals: VDE, UL
 Accessories: plug-in connectors (page 107)
 Upon request: 7 - 24 pole, pin spacing 10.16 mm, different colours, irregular spacing

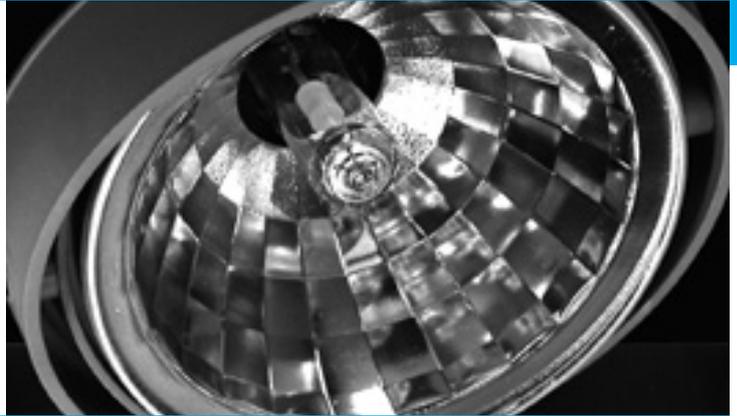
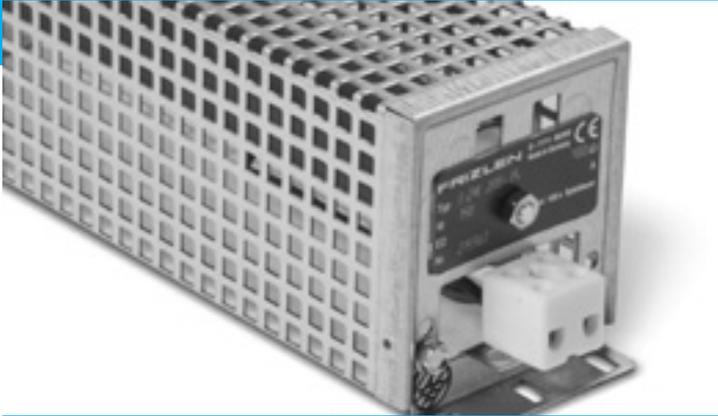


GST 865 H Pin Spacing 5.08 mm

Connection: headers for snap-fit with plug-in connectors GSK 865
 Fixing: horizontal connection to pc-board for connection of plug-in connectors from the front
 Length solder pin: 3.8 mm
 Eyelet/mounting hole: Ø 1.4 mm
 Important approvals: VDE, UL
 Accessories: plug-in connectors (page 107)
 Upon request: 7 - 24 pole, pin spacing 10.16 mm, different colours, irregular spacing

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Side Walls				with Side Walls			
2 pole	GST 865 VG/ 2	378102	500	2 pole	GST 865 HG/ 2	378602	500
3 pole	GST 865 VG/ 3	378103	500	3 pole	GST 865 HG/ 3	378603	500
4 pole	GST 865 VG/ 4	378104	500	4 pole	GST 865 HG/ 4	378604	500
5 pole	GST 865 VG/ 5	378105	400	5 pole	GST 865 HG/ 5	378605	400
6 pole	GST 865 VG/ 6	378106	300	6 pole	GST 865 HG/ 6	378606	300
without Side Walls (Interlocking with no Loss in Space)				without Side Walls (Interlocking with no Loss in Space)			
2 pole	GST 865 VO/ 2	378002	500	2 pole	GST 865 HO/ 2	378502	500
3 pole	GST 865 VO/ 3	378003	500	3 pole	GST 865 HO/ 3	378503	500
4 pole	GST 865 VO/ 4	378004	500	4 pole	GST 865 HO/ 4	378504	500
5 pole	GST 865 VO/ 5	378005	400	5 pole	GST 865 HO/ 5	378505	400
6 pole	GST 865 VO/ 6	378006	300	6 pole	GST 865 HO/ 6	378506	300





Technical Information

Applicable Standards

EN 60335-1
safety of household and similar electrical appliances
EN 60598
luminaires – general requirements and tests
EN 60998
connecting devices for low-voltage circuits

Current Rating

	EN 60335-1	EN 60598	EN 60998
157		16 A	24 A at T 350 °C
153		16 A	24 A at T 350 °C
PM		32 A	41 A at T 350 °C
131		16 A	24 A at T 350 °C
160 LF	16 A		24 A at T 85 °C
815	16 A		24 A at T 85 °C

Porcelain

C 111, EN 60672
surface glazed (except ground surface)
continuous working temperature 350 °C

Steatite

C 220, EN 60672
continuous working temperature 350 °C

Synthetic Material

polyamide 6/6
flammability rating to UL 94: V-2
continuous working temperature 100 °C, short-time temperature 160 °C

Metal

contacts: brass, plated resp. steel, plated
clamping screws: steel, zinc plated, chromed
wire protectors: spring steel

Important Approvals

For current approvals, please see the relative data sheets of each item on our website.

Approvals	Nominal Cross Section	Voltage Rating
	1.0 – 2.5 mm ²	250 V/450 V

Porcelain Connectors



Porcelain Connectors 157

Connection: screw
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 6.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 3.2 mm

Torque screw: M3: ⤴ max. 0.5 Nm

Stripping length: 7 - 7.5 mm

Important approvals: VDE

Upon request: printing, different screws



Porcelain Connectors 153

Connection: screw
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 6.0 mm² (without wire protector)

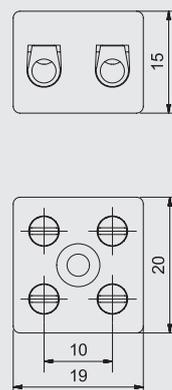
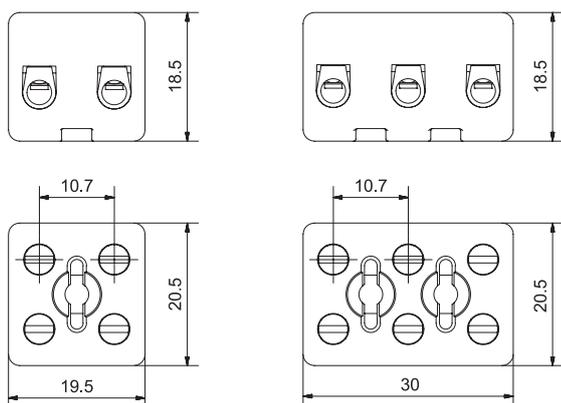
Fixing: by screw or rivet size Ø 3.3 mm

Torque screw: M3: ⤴ max. 0.5 Nm

Stripping length: 7 - 7.5 mm

Upon request: printing, different screws

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors and Center Stop				with Wire Protectors			
2 pole	157/2 MDS	412302M	400	2 pole	153/2 DS	412702	400
3 pole	157/3 MDS	412303M	250	without Wire Protectors			
with Wire Protectors				2 pole	153/2	412602	400
2 pole	157/2 DS	412302	400				
3 pole	157/3 DS	412303	250				
without Wire Protectors							
2 pole	157/2	412202	400				
3 pole	157/3	412203	250				



Steatite Connectors



Porcelain Connectors PM

Connection: screw
 conductor size 0.5 - 6.0 mm² (with wire protector)
 conductor size 0.5 - 16.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 4.5 mm

Torque screw: M4: \cup max. 1.2 Nm

Stripping length: 9.5 - 10 mm

Upon request: printing, different screws



Steatite Connectors 131

Connection: screw
 conductor size 0.5 - 6.0 mm²

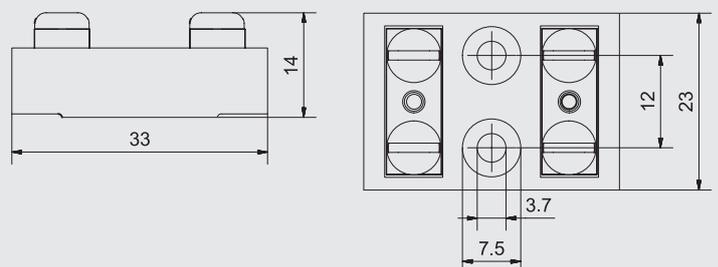
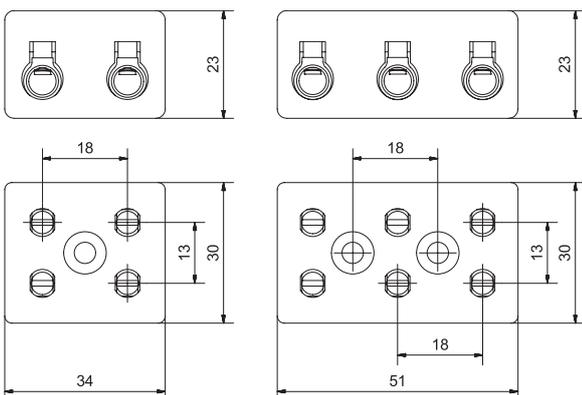
Fixing: by screw or rivet size Ø 3.7 mm

Torque screw: M3.5: \cup max. 0.8 Nm

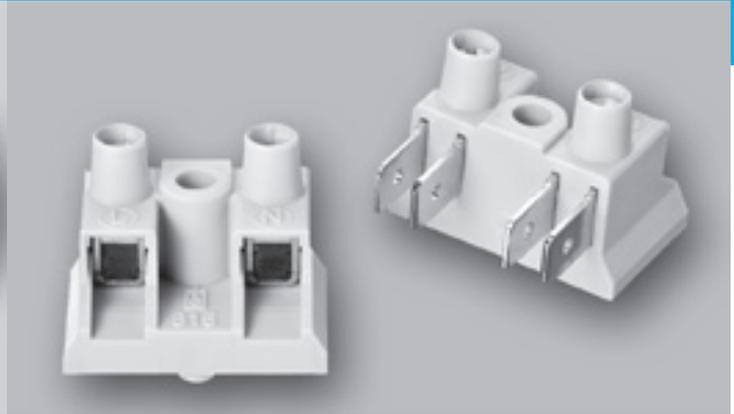
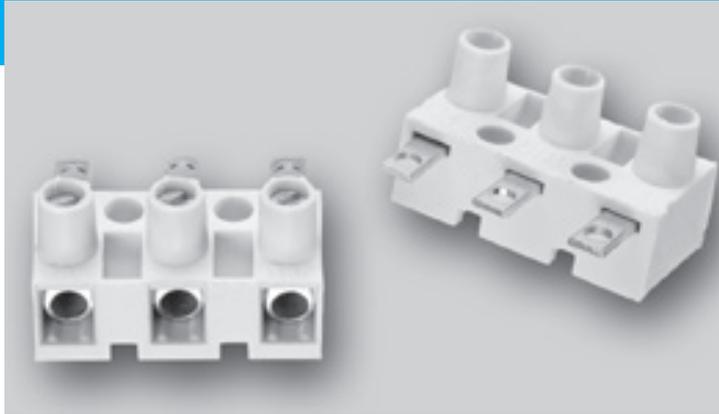
Stripping length: 10 - 11 mm

Upon request: 4 pole, spring washers and plain washers assembled

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				2 pole			
2 pole	PM/ 2 DS	412902	100		131/ 2	422602	100
3 pole	PM/ 3 DS	412903	50				
without Wire Protectors							
2 pole	PM/ 2	412802	100				
3 pole	PM/ 3	412803	50				



Special Connectors



Terminal Blocks with Solder Tags 160 LF

Appliance Terminal Blocks Type 815

Connection: solder tag 0.5 - 2.5 mm²
 screw
 conductor size 0.5 - 2.5 mm² (with wire protector)
 conductor size 0.5 - 4.0 mm² (without wire protector)

Fixing: by screw or rivet size Ø 3.5 mm

Torque screw: M3: ⤴ max. 0.5 Nm

Stripping length: 6.5 - 7 mm

Important approvals: VDE

Accessories: strain reliefs (page 86)

Upon request: 7 - 11 pole, printing, different polyamides, different screws, marking labels

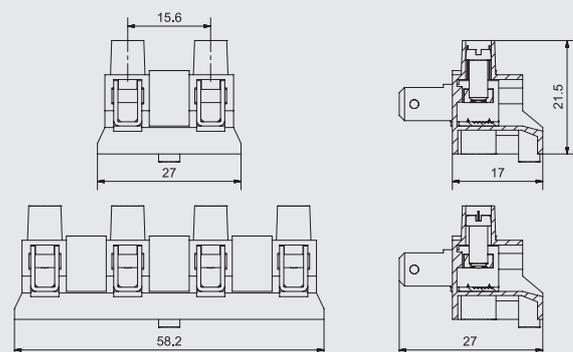
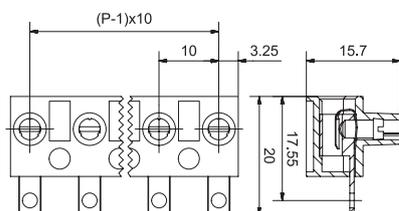
Connection: tab 6.3 x 0.8 mm
 screw
 conductor size 0.5 - 4.0 mm²

Fixing: by screw or rivet size Ø 4.4 mm

Torque screw: M3.5: ⤴ max. 0.8 Nm

Stripping length: 7.5 - 8 mm

Description	Item	Order Number	PU	Description	Item	Order Number	PU
with Wire Protectors				2 pole	815/ 2	182202	600
1 pole	160 LF/ 1 DS	181301	1000	4 pole	815/ 4	182204	200
2 pole	160 LF/ 2 DS	181302	500				
3 pole	160 LF/ 3 DS	181303	250				
4 pole	160 LF/ 4 DS	181304	200				
5 pole	160 LF/ 5 DS	181305	100				
6 pole	160 LF/ 6 DS	181306	100				
12 pole	160 LF/12 DS	181312	50				
without Wire Protectors							
1 pole	160 LF/ 1	181201	1000				
2 pole	160 LF/ 2	181202	500				
3 pole	160 LF/ 3	181203	250				
4 pole	160 LF/ 4	181204	200				
5 pole	160 LF/ 5	181205	100				
6 pole	160 LF/ 6	181206	100				
12 pole	160 LF/12	181212	50				





Properties of the Insulating Materials Employed

	Application	Particular Properties	Temperature Resistance			lowest Operating Temperature	Melting Point	Flammability Class to UL 94
			continuous	to DIN 60998	short-time			
PA 6	connectors and connecting systems of the AC standard line	high insulation, shatter-proof, asbestos and halogen-free, corrosion-proof, resistant against weather, ozone, UV radiation, solvents, oil, fat	100 °C	130 °C	160 °C	-35 °C	215 °C	V-2
PA 6.6			100 °C	130 °C	160 °C	-35 °C	255 °C	V-2
PA 6.6 HT			connectors and connecting systems for use in periodically high ambient temperatures	160 °C	-	200 °C	-50 °C	255 °C
ACGW-8.7 (PA 6.6)	terminal blocks and connectors for use in household appliances and similar purposes to EN 60335-1	high fire resistance GWIT 775°C/0.8-1.3 fibre-glass-free, halogen-free	100 °C	130 °C	160 °C	-35 °C	260 °C	V-2
PPA-GF	SMD connectors	resistant against high soldering temperatures (reflow soldering)	150 °C	130 °C	180 °C	-60 °C	295 °C	V-0
PBT	PCB connectors and pluggable PCB connectors	dimensionally stable, true to spacing	120 °C	-	200 °C	-30 °C	225 °C	V-0
PC	LINECT®, ZEL 110 and ZEL 900	high dimensional accuracy, high weathering resistance, resistant against high-energy rays (UV)	125 °C	-	165 °C	-60 °C	260 °C	V-0
Porcelain	connectors for use in periodically extremely high ambient temperatures	high temperature resistant, even when touched	1.000 °C	-	-	-200 °C	1.680 °C	-
Steatite	connectors for use in periodically extremely high ambient temperatures	high temperature resistant, even when touched	800 °C	-	-	-160 °C	1.450 °C	-



Regulations Applicable for the Use of our Products

Power Installations in General		VDE 0100/..	Erection of power installations with normal voltages up to 1000 V
		VDE 0110/..	Insulation co-ordination for equipment within low-voltage systems
	EN 50274	VDE 0660/..	Protection against electric shock
	EN 60529	VDE 0470/..	Degrees of protection provided by enclosures (IP Code)
Connectors in General	EN 60695/..	VDE 0471/..	Fire hazard testing
	EN 60998/..	VDE 0613/..	Connecting devices for low voltage circuits
	EN 60999/..	VDE 0609/..	Requirements for clamping units for electrical copper conductors
Connecting Systems in General	EN 60947-7-4	VDE 0611-7-4	Low-voltage switchgear and controlgear – ancillary equipment – PCB terminal blocks for copper conductors
	EN 60320/..	VDE 0625/..	Appliance couples for household and similar purpose
	EN 61535	VDE 0606-200	Installation couplers intended for permanent connection in fixed installations
Utility Devices	EN 61984	VDE 0627	Connectors – safety regulations and testing
	EN 60335/..	VDE 0700/..	Safety of household and similar electrical appliances
	EN 60598/..	VDE 0711	Luminaires – requirements and testing
	EN 60921/..	VDE 0712/..	Specification for accessories to hot- and cold cathode fluorescent lamps - ballasts
Tolerances	EN 61558/..	VDE 0570/..	Safety of transformers, power supply units and the like
	DIN 7168		General tolerances for linear and angular dimensions and geometrical tolerances (not to be used for new designs)
	DIN ISO 2768 part 1		General tolerances; tolerances for linear and angular dimensions without individual tolerance indications
	DIN ISO 2768 part 2		General tolerances; geometrical tolerances for features without individual tolerances indications
	DIN 16742		Plastics mouldings; Tolerances and acceptance conditions for linear dimensions
	DIN 40680 part 1		Ceramic components for electrical purposes; admissible tolerances
	DIN 40680 part 2		Ceramic components for electrical purposes; from tolerances

Relevant Glow Wire Tests

according EN 60998-1:

- connecting devices for low voltage circuit
- test on mouldings that keep current-carrying parts in their position
- obligatory tests in order to obtain a VDE certificate for connecting devices
- test carried out on a component
 - temperature of glow wire 850 °C
 - contact time of glow wire: 5 seconds
 - flame extinguishes 30 seconds after removal of the glow wire

according EN 60335-1:

- Standard for household and similar electrical appliances
- further glow wire tests for mouldings that are positioned 3 mm next to current-carrying parts
- test carried out on a component
 - to EN 60695-2-11 “GWT 750 °C”
 - temperature of glow wire 750 °C
 - contact time of glow wire 30 seconds
 - flame extinguishes within 2 seconds max.
- (alternatively) test carried out on a test board
 - EN 60695-2-13 “GWIT 775 °C”
 - temperature of glow wire 775 °C
 - contact time of glow wire 30 seconds
 - flame extinguishes within 5 seconds max.



solid (rigid)



stranded (rigid)



flexible (flexible)

Conductors

Configuration and Dimensions of Connecting Cables: Extract from DIN VDE 0295

Nominal Cross Section	solid		stranded		flexible		American Wire Gauge (AWG) to EN 60204 part 1						
	Dia. max.	No. of Wires	Dia. max.	No. of Wires	Dia. max.	No. of Wires	AWG	Ø mm	rigid drc mils	mm ²	flexible Ø mm	circ mils	mm ²
0.5	0.9	1	1.1	7	1.1	16	20	0.81	1.022	0.52	0.97	1.111	0.56
0.75	1.0	1	1.2	7	1.3	24	18	1.02	1.520	0.82	1.15	1.600	0.82
1	1.2	1	1.4	7	1.5	32	(17)	1.15	2.050	1.04			
-	-	-	-	-	-	-	16	1.29	2.580	1.31	1.50	2.580	1.32
1.5	1.5	1	1.7	7	1.8	30	(15)	1.45	3.260	1.65			
-	-	-	-	-	-	-	14	1.63	4.110	2.03	1.85	4.100	2.09
2.5	1.9	1	2.2	7	2.6	50	(13)	1.83	5.180	2.63			
-	-	-	-	-	-	-	12	2.05	6.530	3.31	2.41	6.500	3.32
4	2.4	1	2.7	7	3.2	56	(11)	2.30	8.230	4.17			
-	-	-	-	-	-	-	10	2.59	10.380	5.25	2.95	10.530	5.37
6	2.9	1	3.3	7	3.9	84	(9)	2.91	13.100	6.63			
-	-	-	-	-	-	-	8	3.26	16.510	8.37	3.73	16.625	8.48
10	3.7	1	4.2	7	5.1	80	(7)	3.67	20.800	10.58	4.15	20.820	10.55
-	-	-	-	-	-	-	6	4.12	26.240	13.30	4.67	26.250	13.39
16	4.6	1	5.3	7	6.3	126	(5)	4.62	33.100	16.77	5.24	33.100	16.77
-	-	-	-	-	-	-	4	5.19	41.740	21.15	5.95	41.650	21.24
25	-	-	6.6	7	7.8	196	(3)	5.83	52.600	26.67	6.61	52.630	26.67
35	-	-	7.9	7	9.2	276	2	6.54	66.360	33.62	7.42	66.150	33.74

Index of Order Numbers

Order Number	Page						
024313	65	112406	68	121312	76	124205	79
040012	61	112412	68	121601	76	124206	79
040013	62	114001	72	121602	76	124212	79
040014	63	114002	72	121603	76	124301	79
040015	64	114003	72	121604	76	124302	79
041012	61	114004	72	121605	76	124303	79
041013	62	114005	72	121606	76	124304	79
041014	63	114006	72	121612	76	124305	79
041015	64	114012	72	121701	76	124306	79
041213	62	114201	72	121702	76	124312	79
041214	63	114202	72	121703	76	124401	80
041215	64	114203	72	121704	76	124402	80
041313	62	114204	72	121705	76	124403	80
041314	63	114205	72	121706	76	124404	80
041315	64	114206	72	121712	76	124405	80
041413	62	114212	72	122201	78	124406	80
041414	63	114601	71	122202	78	124412	80
041415	64	114602	71	122203	78	124501	80
044012	61	114603	71	122204	78	124502	80
044013	62	114604	71	122205	78	124503	80
044014	63	114605	71	122206	78	124504	80
044015	64	114606	71	122212	78	124505	80
045012	61	114612	71	122301	78	124506	80
045013	62	114701	71	122302	78	124512	80
045014	63	114702	71	122303	78	124602	79
045015	64	114703	71	122304	78	124603	79
045213	62	114704	71	122305	78	124604	79
045214	63	114705	71	122306	78	124605	79
045215	64	114706	71	122312	78	124606	79
045313	62	114712	71	123201	77	124612	79
045314	63	114801	71	123202	77	124702M	79
045315	64	114802	71	123203	77	124703M	79
045413	62	114803	71	123204	77	124704M	79
045414	63	114804	71	123205	77	124705M	79
045415	64	114805	71	123206	77	124706M	79
045613	62	114806	71	123212	77	124712M	79
045614	63	114812	71	123301	77	124801	78
045615	64	114901	71	123302	77	124802	78
051253	66	114902	71	123303	77	124803	78
051653	66	114903	71	123304	77	124804	78
053255	67	114904	71	123305	77	124805	78
053655	67	114905	71	123306	77	124806	78
054052	66	114906	71	123312	77	124812	78
054255	67	114912	71	123601	77	124901M	78
054655	67	115113	73	123602	77	124902M	78
108005	68	115223	73	123603	77	124903M	78
108015	68	115251	74	123604	77	124904M	78
108307	69	115298	74	123605	77	124905M	78
108307B1	69	121201	76	123606	77	124906M	78
112001	68	121202	76	123612	77	124912M	78
112002	68	121203	76	123701	77	125201	80
112003	68	121204	76	123702	77	125202	80
112004	68	121205	76	123703	77	125203	80
112005	68	121206	76	123704	77	125204	80
112006	68	121212	76	123705	77	125205	80
112012	68	121301	76	123706	77	125206	80
112401	68	121302	76	123712	77	125212	80
112402	68	121303	76	124201	79	125301	80
112403	68	121304	76	124202	79	125302	80
112404	68	121305	76	124203	79	125303	80
112405	68	121306	76	124204	79	125304	80

Index of Order Numbers

Order Number	Page						
125305	80	140606	55	161053	46	163155x0	43
125306	80	140706	55	161063	46	16316310	34
125312	80	14135203	56	16135310	50	16316320	34
125601	81	14135212	56	16135320	50	163163x0	34
125602	81	14136203	56	161353x0	50	16316410	39
125603	81	14136212	56	16136310	50	16316420	39
125604	81	14235203	56	16136320	50	163164x0	39
125605	81	14235212	56	161363x0	50	16316510	43
125606	81	14236203	56	16175310	49	16316520	43
125612	81	14236212	56	16175320	49	163165x0	43
125701	81	14330203	21	161753x0	49	16317310	34
125702	81	14330212	21	16176310	49	16317320	34
125703	81	14430203	21	16176320	49	163173x0	34
125704	81	14430212	21	161763x0	49	16317410	39
125705	81	145102	19	162003	23	16317420	39
125706	81	14830212	20	162003	44	163174x0	39
125712	81	149902A5	20	162043	23	16318310	34
127001	81	150462	57	162043	44	16318320	34
127002	81	150463	57	162053	23	163183x0	34
127003	81	150472	57	162053	44	16318410	39
127004	81	150562	57	162054	35	16318420	39
127005	81	150563	57	162063	23	163184x0	39
127006	81	150572	57	162063	44	16318510	43
127012	81	151082	58	162064	35	16318520	43
127101	81	151083	58	162073RH	28	163185x0	43
127102	81	151085	58	162453	24	163352	51
127103	81	151182	58	162454	36	163353	51
127104	81	151183	58	162455	40	163354	51
127105	81	151185	58	162463	24	163355	51
127106	81	151462	57	162463B	25	163362	51
127112	81	151463	57	162463D	25	163363	51
128201	82	151472	57	162463G	25	163364	51
128202	82	151482	58	162463K	25	163365	51
128203	82	151483	58	162463P	25	163552	51
128204	82	151485	58	162463R	25	163553	51
128205	82	151562	57	162463X	25	163554	51
128206	82	151563	57	162463Y	25	163555	51
128212	82	151572	57	162464	36	163562	51
128301	82	151582	58	162465	40	163563	51
128302	82	151583	58	162465P	40	163564	51
128303	82	151585	58	162553	26	163565	51
128304	82	155608	59	162563	26	1636X3	47
128305	82	155708	59	162563R	26	1636X3V	47
128306	82	160053	45	162653	24	164053	46
128312	82	160063	45	162654	36	164063	46
128601	82	160352	51	162655	40	16435310	49
128602	82	160353	51	162663	24	16435320	49
128603	82	160354	51	162664	36	164353x0	49
128604	82	160355	51	162665	40	16436310	49
128605	82	160362	51	162853	24	16436320	49
128606	82	160363	51	162863	24	164363x0	49
128612	82	160364	51	163053	45	16475310	33
128701	82	160365	51	163063	45	16475320	33
128702	82	160552	51	16315310	34	164753x0	33
128703	82	160553	51	16315320	34	16475410	38
128704	82	160554	51	163153x0	34	16475420	38
128705	82	160555	51	16315410	39	164754x0	38
128706	82	160562	51	16315420	39	16475510	42
128712	82	160563	51	163154x0	39	16475520	42
140152	54	160564	51	16315510	43	164755x0	42
140162	54	160565	51	16315520	43	16476310	33

Index of Order Numbers

Order Number	Page						
16476320	33	166053	23	166263x0	33	167164	37
164763x0	33	166053	45	16626410	39	167164V2	37
16476410	38	166053H	23	16626420	39	167165	41
16476420	38	166053H	45	166264x0	39	167165P	41
164764x0	38	1660530	23	16626510	43	167165V2	41
16476510	42	1660530	45	16626520	43	167165V4	42
16476520	42	166053V	23	166265x0	43	1671P5V2	41
164765x0	42	166053V	45	16627310	33	1671P5V4	42
16477310	33	166054	35	16627320	33	167853	28
16477320	33	166054H	35	166273x0	33	168153	27
164773x0	33	1660540	35	16627410	39	168153V	27
16477410	38	166056	44	16627420	39	168163	27
16477420	38	166056H	44	166274x0	39	168163V	27
164774x0	38	1660560	44	16628310	33	168263B	27
16478310	33	166063	23	16628320	33	168263D	27
16478320	33	166063	45	166283x0	33	168263G	27
164783x0	33	166063H	23	16628410	39	168263K	27
16478410	38	166063H	45	16628420	39	168263P	27
16478420	38	1660630	23	166284x0	39	168263R	27
164784x0	38	1660630	45	16628510	43	168263X	27
16478510	42	166063V	23	16628520	43	168263Y	27
16478520	42	166063V	45	166285x0	43	168363B	27
164785x0	42	166064	35	166652	52	168363D	27
165003	23	166064H	35	166652H	52	168363G	27
165003	44	1660640	35	1666520	52	168363K	27
165043	44	166066	44	166653	52	168363P	27
165043	23	166066H	44	166653H	52	168363R	27
165053	23	1660660	44	1666530	52	168363X	27
165053	44	166153	23	166654	52	168363Y	27
165054	35	166153	45	166654H	52	168453	27
165063	23	166153H	23	1666540	52	168453V	27
165063	44	166153H	45	166655	52	168463	27
165064	35	1661530	23	166655H	52	168463V	27
165073R0	28	1661530	45	1666550	52	168553	46
165093	23	166153V	23	166662	52	168553V	46
165453	24	166153V	45	166662H	52	168563	46
165454	36	166154	35	1666620	52	168563V	46
165455	40	166154H	35	166663	52	168653	46
165463	24	1661540	35	166663H	52	168653V	46
165463B	25	166163	23	1666630	52	168663	46
165463D	25	166163	45	166664	52	168663V	46
165463G	25	166163H	23	166664H	52	168753	26
165463K	25	166163H	45	1666640	52	168753V	26
165463P	25	1661630	23	166665	52	168754	36
165463R	25	1661630	45	166665H	52	168754V	36
165463X	25	166163V	23	1666650	52	168755	40
165463Y	25	166163V	45	166953	48	168755V	40
165464	36	166164	35	166963	48	168763	26
165465	40	166164H	35	167053	31	168763V	26
165465P	40	1661640	35	167063	31	168764	36
165553	26	16625310	33	167153	29	168764V	36
165563	26	16625320	33	167153V2	29	168765	40
165563R	26	166253x0	33	167153V4	30	168765V	40
165653	24	16625410	39	167154	37	168853	26
165654	36	16625420	39	167154V2	37	168853V	26
165655	40	166254x0	39	167155	41	168854	36
165663	24	16625510	43	167155V2	41	168854V	36
165664	36	16625520	43	167155V4	42	168855	40
165665	40	166255x0	43	167163	29	168855V	40
165853	24	16626310	33	167163V2	29	168863	26
165863	24	16626320	33	167163V4	30	168863V	26

Index of Order Numbers

Order Number	Page						
168864	36	169783	30	191200	87	252391	91
168864V	36	1697P5	40	191202	87	253303	91
168865	40	1697P5V	40	191203	87	253393	91
168865V	40	169863	53	191212	87	258301	91
169003	32	1698P5	40	191300	87	258391	91
169003V	32	1698P5V	40	191302	87	271481	90
169043	32	169903	32	191303	87	271491	90
169043V	32	169903V	32	191312	87	282192	92
169053	32	169953	32	191400	87	282391	92
169053V	32	169953V	32	191402	87	282591	93
169054	38	169963	32	191403	87	293300	94
169054V	38	169963V	32	191412	87	2934..	94
169063	32	170201	83	192203	58	293500	94
169063V	32	170202	83	192205	58	2936..	94
169064	38	170203	83	192303	58	293800	94
169064V	38	170204	83	192305	58	2939..	94
169153	31	170205	83	193202	85	314002	96
169153	48	170301	83	193203	85	314003	96
169163	48	170302	83	193204	85	314004	96
169163	31	170303	83	193205	85	314005	96
169253	31	170304	83	193206	85	314006	96
169253	48	170305	83	193212	85	314102	96
169263	31	170603	83	193302	85	314103	96
169263	48	170604	83	193303	85	314104	96
169303	32	170605	83	193304	85	314105	96
169303V	32	170703	83	193305	85	314106	96
169343	32	170704	83	193306	85	314402	96
169343V	32	170705	83	193312	85	314403	96
169353	32	171201	84	193802	85	314404	96
169353V	32	171202	84	193803	85	314405	96
169354	38	171203	84	193804	85	314406	96
169354V	38	171204	84	193805	85	314502	96
169363	32	171205	84	196003	87	314503	96
169363V	32	171301	84	196103	87	314504	96
169364	38	171302	84	196420	86	314505	96
169364V	38	171303	84	196423	65	314506	96
169453	53	171304	84	202101	93	321602	102
169453	26	171305	84	202161	93	321603	102
169453	36	171603	84	206161	94	321604	102
169453	40	171604	84	230101	89	321605	102
169453	46	171605	84	230102	89	321606	102
169453	27	171703	84	230181	89	321612	102
169463	53	171704	84	230182	89	321702	102
169463	26	171705	84	230191	89	321703	102
169463	36	175001	70	230192	89	321704	102
169463	46	181201	112	232101	89	321705	102
169463	40	181202	112	232102	89	321706	102
169463	27	181203	112	232181	89	321712	102
169553	53	181204	112	232182	89	323202	102
169563	53	181205	112	232191	89	323203	102
169564	38	181206	112	232192	89	323204	102
169564	32	181212	112	232301	89	323205	102
169564	32	181301	112	232302	89	323206	102
169564	53	181302	112	232381	89	323212	102
169603	32	181303	112	232382	89	324002	97
169603V	32	181304	112	232391	89	324003	97
169653	32	181305	112	232392	89	324102	97
169653V	32	181306	112	238002	90	324103	97
169663	32	181312	112	238082	90	324402	97
169663V	32	182202	112	238092	90	324403	97
169773	30	182204	112	252301	91	324502	97

Index of Order Numbers

Order Number	Page						
324503	97	364002	104	378602	108	96475420	38
325001	97	364003	104	378603	108	964754x0	38
325002	97	364004	104	378604	108	96476310	33
325101	97	364005	104	378605	108	96476320	33
325102	97	364006	104	378606	108	964763x0	33
325401	97	366102	103	398020	105	96476410	38
325402	97	366103	103	398020	105	96476420	38
325501	97	366104	103	398030	105	964764x0	38
325502	97	366105	103	398030	105	96476510	42
326002	98	366106	103	412202	110	96476520	42
326003	98	366602	104	412203	110	964765x0	42
326102	98	366603	104	412302	110	96477410	38
326103	98	366604	104	412302M	110	96477420	38
326402	98	366605	104	412303	110	964774x0	38
326403	98	366606	104	412303M	110	96478310	33
326502	98	368002	105	412602	110	96478320	33
326503	98	368003	105	412702	110	964783x0	33
327001	98	368004	105	412802	111	96478410	38
327002	98	368005	105	412803	111	96478420	38
327101	98	368006	105	412902	111	964784x0	38
327102	98	368102	105	412903	111	96595310	33
327401	98	368103	105	422602	111	96595320	33
327402	98	368104	105	525203	67	965953x0	33
327501	98	368105	105	542152	86	96595410	39
327502	98	368106	105	542153	86	96595420	39
332002	99	368502	105	542162	86	965954x0	39
332003	99	368503	105	542163	86	96596310	33
332402	99	368504	105	601103	18	96596320	33
332403	99	368505	105	605103	18	965963x0	33
332982	99	368506	105	609950	18	96596410	39
332983	99	368602	105	609950	18	96596420	39
333001	99	368603	105	6099X0	18	965964x0	39
333002	99	368604	105	6099X0	18	96596510	43
333401	99	368605	105	96285310	34	96596520	43
333402	99	368606	105	96285320	34	965965x0	43
334002	100	373402	106	962853x0	34	96597410	39
334003	100	373403	106	96285410	39	96597420	39
335001	100	374002	107	96285420	39	965974x0	39
335002	100	374003	107	962854x0	39	96598310	33
336002	101	374004	107	96286310	34	96598320	33
336003	101	374005	107	96286320	34	965983x0	33
336402	101	374006	107	962863x0	34	96598410	39
336403	101	377502	106	96286410	39	96598420	39
337001	101	377503	106	96286420	39	965984x0	39
337002	101	377602	107	962864x0	39	97565310	50
337401	101	377603	107	96286510	43	97565320	50
337402	101	378002	108	96286520	43	975653x0	50
346002	100	378003	108	962865x0	43	97566310	50
346003	100	378004	108	96287410	39	97566320	50
347001	100	378005	108	96287420	39	975663x0	50
347002	100	378006	108	962874x0	39	98565310	34
351101	15	378102	108	96288310	34	98565320	34
351102	15	378103	108	96288320	34	985653x0	34
351151	15	378104	108	962883x0	34	98566310	34
351152	15	378105	108	96288410	39	98566320	34
351199	16	378106	108	96288420	39	985663x0	34
362002	103	378502	108	962884x0	39		
362003	103	378503	108	96475310	33		
362004	103	378504	108	96475320	33		
362005	103	378505	108	964753x0	33		
362006	103	378506	108	96475410	38		



Sample Box

General Conditions

“Standard” Sample Box

Contents:	Europa series terminal blocks Luminaire connectors Screw-screwless connectors Plug and socket connectors Porcelain connectors
Order no.:	589102
Charge Fee:	20 Euro

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