

**CONECTORES
RECTANGULARES
SERIE G**



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Rectangular Connectors G Series



Be certain. Belden.

The Compact Connector with a Range of Plug Interfaces

Where other connectors may find conditions too tight, the G series is right at home in small spaces – and that’s why the rectangular connector with compact dimensions has become a fixture in the world of miniaturization.

Product Features

- Compact rectangular connectors with IP65 protection
- Robust plastic housing
- Meets VDE 0660 specifications and protected against dust and water jet spray
- With or without protective contact and always with encoding to protect against misidentification
- 2 to 6-pin with and without PE

Benefits

- High flexibility thanks to the large number of variants: female and male connectors, with overmolded cable or field attachable or as appliance connectors
- Globally proven and reliable system for a number of applications, especially in tough and compact environmental conditions (e.g., mining)
- Robust housing for maximum availability of machines and systems
- Easy installation saves money

Applications




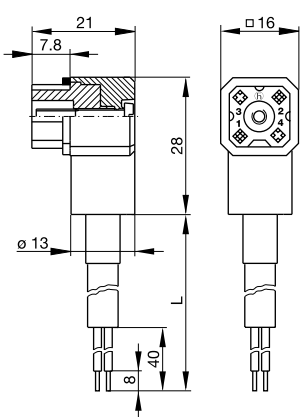
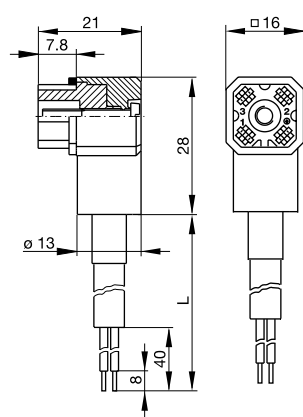
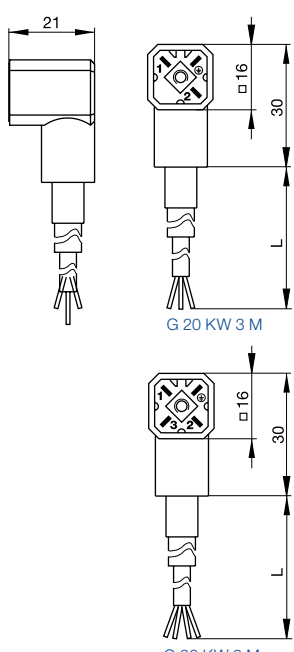
The G series is used for grid voltage and cable connections to small drives, for example, and in hydraulic and pneumatic controls, medical devices and photocells, microfilm viewers, refrigerated display cases, and garage door controls.

Since even harsh environments are no problem for the G series, you can particularly find these connectors:







- On oil rigs and in mines
- On container ships and at container loading stations
- In heavy-duty construction machinery
- In bottling and paint systems

Rectangular Connectors G Series

Technical Information

Product Description			
Order Designation	G x KW 1 F	G x0 KW 3 F	G x0 KW 3 M
			
Description	Pre-assembled female connector with overmolded cable, without ground contact (PE)	Pre-assembled female connector with overmolded cable, with ground contact (PE)	Pre-assembled male connector with overmolded cable, with ground contact (PE)
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61984, DIN EN 61984 (VDE 0627)		
Approvals	VDE		
Technical Data			
Ambient Temperature	-40 °C to +90 °C, mind cable temperature range		
Housing/Grip/Screw Coupling	G 2 KW 1 F 1,5M: PA 66 G 4 KW 1 F 2M: PA 6 GF		PA 6 GF
Contact Holder	G 2 KW 1 F 1,5M: PA 66 G 4 KW 1 F 2M: PA 6 GF		PA 6 GF
Contact	CuZn, tin-plated		
Seal(s)	NBR		
Flammability Class	G 2 KW 1 F 1,5M Housing: UL94 V-0 Contact holder material: UL94 HB G 4 KW 1 F 2M Housing: UL94 HB Contact holder material: UL94 HB		Housing: UL94 HB Contact holder material: UL94 HB
Mechanical Data			
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)		
Electrical Data			
Contact Resistance	≤ 4 mΩ	≤ 10 mΩ	≤ 5 mΩ
Rated Voltage	G 2 KW 1 F 1,5M: 50 V AC/DC G 4 KW 1 F 2M: 50 V AC/DC	250 V AC/DC	
Rated Current at +40 °C	10 A		
Pollution Degree	3		
Accessories			
Scope of Delivery or Accessories (incl.)	1 female connector with overmolded cable, 1 central screw M3 x 18, 1 seal		1 male connector with overmolded cable, 1 central screw M3 x 18, 1 seal
Technical Drawing			
			




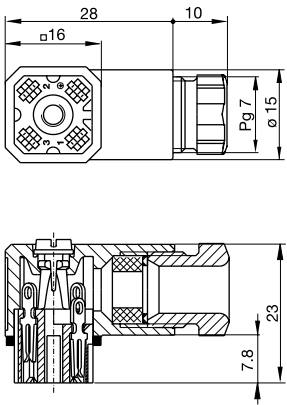
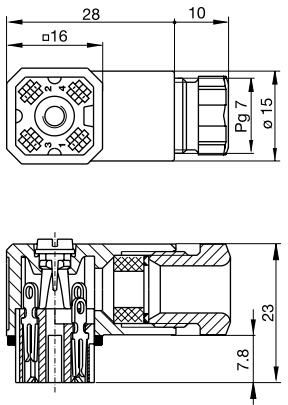
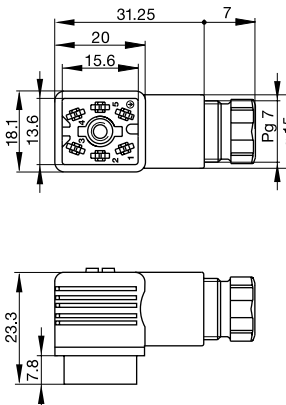
Order Information

Order No.	Order Designation	No. of Pins	Conductor Size	Jacket	Specific Characteristics	Characteristics
931494603	G 2 KW 1 F 1,5M	2	0.75 mm ²	Rubber	Plug-in compatibility with: G 4 A 1 M, G 4 A 1 M MT, G 4 A 5 M, G 4 E 1 M	
931805602	G 4 KW 1 F 2M	4	0.75 mm ²	PVC	Plug-in compatibility with: G 4 A 1 M, G 4 A 1 M MT, G 4 A 5 M, G 4 E 1 M	
932041002	G 20 KW 3 F 3M	2 + PE	1.0 mm ²	PVC	Plug-in compatibility with: G 30 A 3 M, G 30 A 5 M, G 30 E 3 M	
931608003	G 30 KW 3 F 2M	3 + PE	1.0 mm ²	PVC	Plug-in compatibility with: G 30 A 3 M, G 30 A 5 M, G 30 E 3 M	
931793001	G 20 KW 3 M	2 + PE	0.75 mm ²	PVC	Plug-in compatibility with: G 30 E 3 F	
931783001	G 30 KW 3 M	3 + PE	0.75 mm ²	PVC	Plug-in compatibility with: G 30 E 3 F	

Conversion table mm² to AWG on page 20.

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Technical Information

Product Description			
Order Designation	G x0 W 3 F	G 4 W 1 F	GO x WF
			
Description	Field attachable female cable connector with PG7 Cable Gland and solder contacts, with ground contact (PE)	Field attachable female cable connector with PG7 Cable Gland and solder contacts, without ground contact (PE)	Field attachable female cable connector with PG7 Cable Gland and solder contacts, with/without ground contact (PE)
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61984, DIN EN 61984 (VDE 0627)		
Approvals	VDE		
Technical Data			
Ambient Temperature	-40 °C to +90 °C	-40 °C to +90 °C *HT* version: -40 °C to +125 °C	-40 °C to +90 °C
Housing/Grip/Screw Coupling	PA 6 GF		PA 6
Contact Holder	PA 6 GF		PA 6
Contact	CuZn, tin-plated	CuZn, tin-plated *HT* version: CuSn, tin-plated *AU* version: CuZn, gold-plated	CuZn, tin-plated
Screw Coupling/Nut Material	Pressure screw *Gray* version: PA 6 GF *Black* version: PA 6 GF	Pressure screw: PA 66 GF	
Seal(s)	Flat seal: NBR Cable Gland: SBR/NBR	Flat seal: NBR *HT* version: EPDM Cable Gland: SBR/NBR	GO 51 WF: CR (chloroprene rubber) GO 6 WF/GO 60 WF: NBR
Flammability Class	Housing: UL94 HB Contact holder material: UL94 HB Pressure screw: UL94 HB		Housing: UL94-1 Contact holder material: UL94 V-1 Pressure screw: UL94 V-0
Mechanical Data			
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)		
Electrical Data			
Contact Resistance	≤ 10 mΩ		
Rated Voltage	250 V AC/DC	50 V AC/DC	GO 51 WF/GO 60 WF: 250 V AC/DC GO 6 WF: 50 V AC/DC
Rated Current at +40 °C	6 A		
Pollution Degree	3		
Accessories			
Scope of Delivery or Accessories (incl.)	1 female connector with PG7 screw coupling, 1 central screw M3 x 20, 1 seal, unmounted in plastic bag	1 female connector with PG7 screw coupling, 1 central screw M3 x 20, 1 seal, *UM* version: unmounted in plastic bag	1 female connector with PG7 screw coupling, 1 central screw M3 x 20, 1 seal, unmounted in plastic bag
Technical Drawing			
			

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Gland
932185100	G 20 W 3 F BLACK	2 + PE	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932185106	G 20 W 3 F GRAY	2 + PE	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932186100	G 30 W 3 F BLACK	3 + PE	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932186106	G 30 W 3 F GRAY	3 + PE	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932157100	G 4 W 1 F BLACK	4	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932157106	G 4 W 1 F GRAY	4	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932157200	G 4 W 1 F HT BLACK	4	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932157206	G 4 W 1 F HT GRAY	4	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
934386100	G 4 W 1 F AU UM SW	4	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
934386106	G 4 W 1 F AU UM GR	4	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
934386206	G 4 W 1 F AU GRAY	4	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932351200	GO 51 WF	5 + PE	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932447100	GO 6 WF	6	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)
932448100	GO 60 WF SW	6	solder	0.14 to 0.5 mm ²	Ø 4.0 to 7.5 mm (PG7)



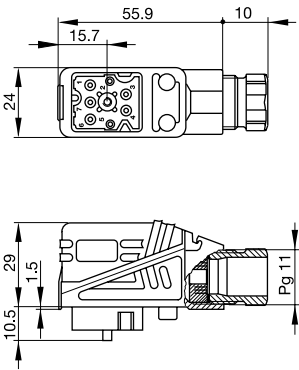
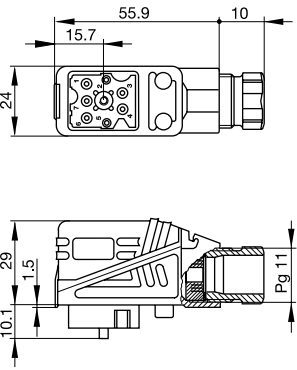
Order Information (continued)

Order No.	Order Designation	Specific Characteristics	Characteristics
932185100	G 20 W 3 F BLACK	Plug-in compatibility with: G 30 A 3 M, G 30 A 5 M, G 30 E 3 M	  
932185106	G 20 W 3 F GRAY	Plug-in compatibility with: G 30 A 3 M, G 30 A 5 M, G 30 E 3 M	 
932186100	G 30 W 3 F BLACK	Plug-in compatibility with: G 30 A 3 M, G 30 A 5 M, G 30 E 3 M	  
932186106	G 30 W 3 F GRAY	Plug-in compatibility with: G 30 A 3 M, G 30 A 5 M, G 30 E 3 M	 
932157100	G 4 W 1 F BLACK	Plug-in compatibility with: G 4 A 1 M, G 4 A 1 M MT, G 4 A 5 M, G 4 E 1 M	  
932157106	G 4 W 1 F GRAY	Plug-in compatibility with: G 4 A 1 M, G 4 A 1 M MT, G 4 A 5 M, G 4 E 1 M	 
932157200	G 4 W 1 F HT BLACK	Plug-in compatibility with: G 4 A 1 M, G 4 A 1 M MT, G 4 A 5 M, G 4 E 1 M	  
932157206	G 4 W 1 F HT GRAY	Plug-in compatibility with: G 4 A 1 M, G 4 A 1 M MT, G 4 A 5 M, G 4 E 1 M	 
934386100	G 4 W 1 F AU UM SW	Plug-in compatibility with: G 4 A 1 M AU, G 4 A 5 M AU	  
934386106	G 4 W 1 F AU UM GR	Plug-in compatibility with: G 4 A 1 M AU, G 4 A 5 M AU	 
934386206	G 4 W 1 F AU GRAY	Plug-in compatibility with: G 4 A 1 M AU, G 4 A 5 M AU	 
932351200	GO 51 WF	Plug-in compatibility with: GO 51 FAV M, GO 51 UM	  
932447100	GO 6 WF	Plug-in compatibility with: GO 6 FAV M, GO 6 UM	  
932448100	GO 60 WF SW	Plug-in compatibility with: GO 60 FAV M, GO 60 UM	  










Conversion table mm² to AWG on page 20.

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Technical Information

Product Description		
Order Designation	GO 070 WF	GO xx0 WF
		
Description	Field attachable female connector with PG11 Cable Gland and screw-type contacts, without ground contact (PE)	Field attachable female connector with PG11 Cable Gland and screw-type contacts, with/without ground contact (PE)
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61984, DIN EN 61984 (VDE 0627)	
Approvals	-	
Technical Data		
Ambient Temperature	Connector: -40 °C to +90 °C, seal: -30 °C to +90 °C	
Housing/Grip/Screw Coupling	PA 66 GF	
Contact Holder	PA 66 GF	
Contact	CuZn, tin-plated	
Screw Coupling/Nut Material	Cover: PA 66 GF, pressure screw: PA 6 GF	
Seal(s)	Flat seal: NBR, cover: NBR, Cable Gland: SBR/NBR	
Flammability Class	Housing: UL94 V-0, cover: UL94 V-0, contact holder material: UL94 V-0, pressure screw: UL94 HB	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Contact Resistance	≤ 10 mΩ	
Rated Voltage	50 V AC/DC	250 V for PE-version, 50 V for non-PE-version
Rated Current at +40 °C	10 A AC/6 A DC	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	1 female connector with PG11 screw coupling, 1 central screw M3 x 35, 2 seals, unmounted in plastic bag	
Technical Drawing		
		



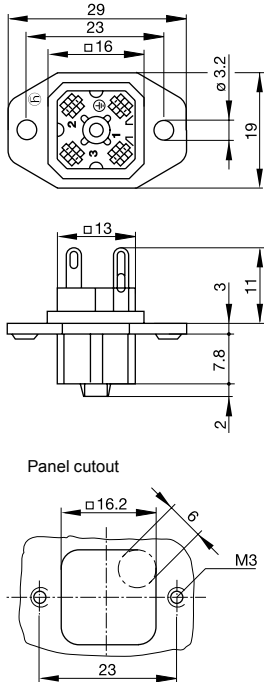
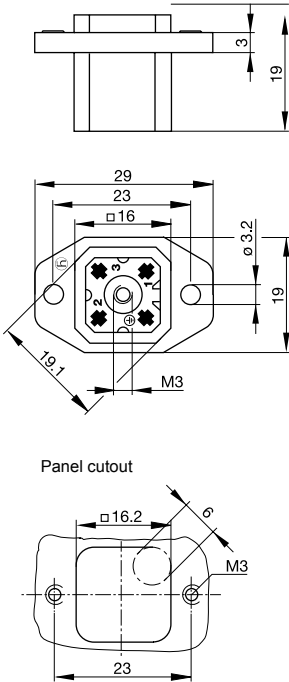
Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Gland	Specific Characteristics	Characteristics
932483100	GO 070 WF	7	screw	0.25 to 1.0 mm ²	Ø 4.0 to 10 mm (PG11)	Plug-in compatibility with: GO 070 FA M	  
932484100	GO 610 WF	6 + PE	screw	0.25 to 1.0 mm ²	Ø 4.0 to 10 mm (PG11)	Plug-in compatibility with: GO 610 FA M	  
932485100	GO 700 WF	7	screw	0.25 to 1.0 mm ²	Ø 4.0 to 10 mm (PG11)	Plug-in compatibility with: GO 700 FA M	  







Conversion table mm² to AWG on page 20.

Rectangular Connectors G Series

Technical Information



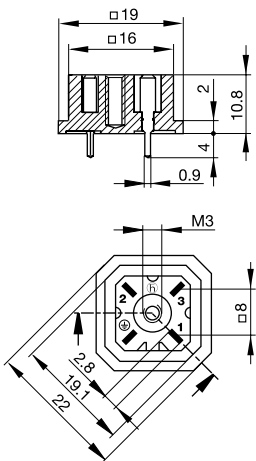
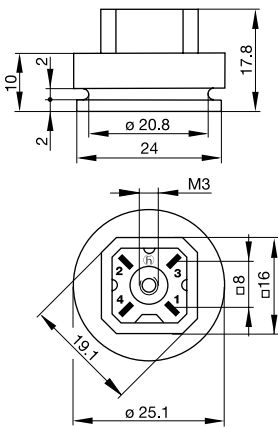
Product Description		
Order Designation	G 30 E 3 F	G 30 E 3, G 4 E 1
		
Description	Female receptacle connector with octagonal flange and solder contacts	Male receptacle connector with octagonal flange, for crimp contacts
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61984, DIN EN 61984 (VDE 0627)	
Approvals	VDE	
Technical Data		
Ambient Temperature	-40 °C to +90 °C	
Housing/Grip/Screw Coupling	PA 6 GF	
Contact Holder	PA 6 GF	
Contact	CuZn, tin-plated	CuZn, tin-plated (contacts RMC 280 must be ordered separately)
Seal(s)	NBR	G 30 E 3 M...: Seal G 30 E-1 must be ordered separately G 4 E 1 M...: Seal G 30 E-2 must be ordered separately
Flammability Class	Contact holder material: UL94-HB	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Contact Resistance	≤ 10 mΩ	
Rated Voltage	250 V AC/DC	G 30 E 3 M...: 250 V AC/DC G 4 E 1 M...: 50 V AC/DC
Rated Current at +40 °C	10 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	1 female receptacle connector	1 male receptacle connector (housing) without crimp contacts
Accessories to be Ordered Separately	Flat seal: G 30 E-1 732135002	G 30 E 3 M... Flat seal: G 30 E-1 732135002 G 4 E 1 M... Flat seal: G 30 E-2 733415002
Technical Drawing		
		

Order Information



Order No.	Order Designation	No. of Pins	Terminal Type	Specific Characteristics	Characteristics
931782106	G 30 E 3 F	3 + PE	solder	Plug-in compatibility with: G 20 KW 3 M..., G 30 KW 3 M...	 
731996506	G 30 E 3 M	3 + PE 2 + PE optional	crimping	Plug-in compatibility with: G 20 KW 3 F..., G 20 W 3 F..., G 30 KW 3 F... G 30 W 3 F...	 
731802506	G 4 E 1 M GRAY	4, 3 or 2 optionally	crimping	Plug-in compatibility with: G 2 KW 1 F..., G 4 KW 1 F..., G 4 W 1 F...	 

Rectangular Connectors G Series

Technical Information




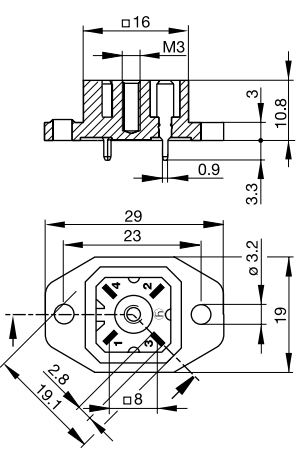
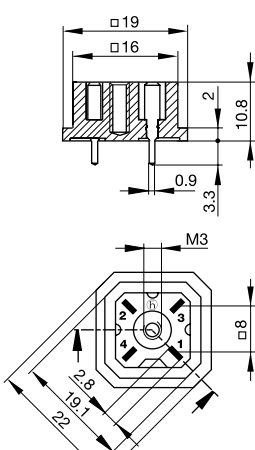
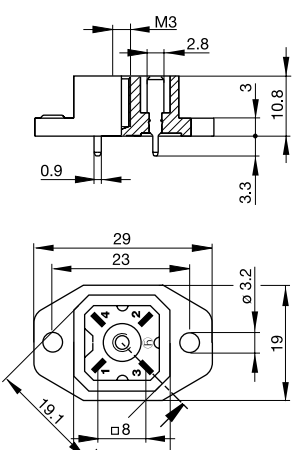
Product Description		
Order Designation	G 30 A 3 M	G 4 A 1 M MT
		
Description	Surface mounted male connector with solder contacts for printed circuits	Surface mounted male connector for press fitting, with solder contacts
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61984, DIN EN 61984 (VDE 0627)	
Approvals	VDE	
Technical Data		
Ambient Temperature	-40 °C to +90 °C	
Housing/Grip/Screw Coupling	PA 6 GF	PA 66 GF
Contact Holder	PA 6 GF	PA 66 GF
Contact	CuZn, tin-plated	
Flammability Class	Contact holder material: UL94 V-0	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Contact Resistance	≤ 10 mΩ	
Rated Voltage	250 V AC/DC	50 V AC/DC
Rated Current at +40 °C	10 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	1 surface mounted male connector	
Technical Drawing		
		

Order Information
















Order No.	Order Designation	No. of Pins	Terminal Type	Specific Characteristics	Characteristics
931700106	G 30 A 3 M GRAY	3 + PE	solder (pins for printed circuits)	Plug-in compatibility with: G 20 KW 3 F..., G 20 W 3 F..., G 30 KW 3 F..., G 30 W 3 F...	
932823100	G 4 A 1 M MT	4	solder	Plug-in compatibility with: G 2 KW 1 F..., G 4 KW 1 F..., G 4 W 1 F...	

Rectangular Connectors G Series

Technical Information

Product Description			
Order Designation	G 30 A 5 M	G 4 A 1 M...	G 4 A 5 M...
			
Description	Male appliance connector with octagonal flange screw fixing and solder contacts for printed circuits	Male appliance connector with solder contacts for printed circuits	Male appliance connector with octagonal flange screw fixing and solder contacts for printed circuits
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61984, DIN EN 61984 (VDE 0627)		
Approvals	VDE		
Technical Data			
Ambient Temperature	-40 °C to +90 °C		
Housing/Grip/Screw Coupling	PA 66 GF	PA 6 GF *AU BLACK* version: PA 66 GF	*Black* version: PA 66 GF *Gray* version: PA 6 GF
Contact Holder	PA 66 GF	PA 6 GF *AU BLACK* version: PA 66 GF	*Black* version: PA 66 GF *Gray* version: PA 6 GF
Contact	CuZn, tin-plated	CuZn, tin-plated *AU BLACK* version: CuZn, gold-plated	CuZn, tin-plated *AU* version: CuZn, gold-plated
Flammability Class	Contact holder material: UL94 V-0	Contact holder material: UL94 HB *AU BLACK* version: UL94 V-0	*Black* version: UL94 V-0 *Gray* version: UL94 HB
Mechanical Data			
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)		
Electrical Data			
Contact Resistance	≤ 10 mΩ		
Rated Voltage	250 V AC/DC	50 V AC/DC	
Rated Current at +40 °C	10 A		
Pollution Degree	3		
Accessories			
Scope of Delivery or Accessories (incl.)	1 surface mounted male connector		
Accessories to be Ordered Separately	Flat seal: G 30 E-2 733415002	-	Flat seal: G 30 E-2 733415002
Technical Drawing			
			

Order Information

























Order No.	Order Designation	No. of Pins	Terminal Type	Specific Characteristics	Characteristics
932840100	G 30 A 5 M BLACK	3 + PE	solder (pins for printed circuits)	Plug-in compatibility with: G 20 KW 3 F..., G 20 W 3 F..., G 30 KW 3 F..., G 30 W 3 F...	  
931807106	G 4 A 1 M	4	solder (pins for printed circuits)	Plug-in compatibility with: G 2 KW 1 F..., G 4 KW 1 F..., G 4 W 1 F...	 
931807300	G 4 A 1 M AU BLACK	4	solder (pins for printed circuits)	Plug-in compatibility with: G 2 KW 1 F..., G 4 KW 1 F..., G 4 W 1 F...	  
932092100	G 4 A 5 M BLACK	4	solder (pins for printed circuits)	Plug-in compatibility with: G 2 KW 1 F..., G 4 KW 1 F..., G 4 W 1 F...	  
932092106	G 4 A 5 M GRAY	4	solder (pins for printed circuits)	Plug-in compatibility with: G 2 KW 1 F..., G 4 KW 1 F..., G 4 W 1 F...	 
932092206	G 4 A 5 M AU GRAY	4	solder (pins for printed circuits)	Plug-in compatibility with: G 2 KW 1 F..., G 4 KW 1 F..., G 4 W 1 F...	 

Rectangular Connectors G Series

Technical Information

Product Description			
Order Designation	GO xx UM	GO xx FAV M	GO xxx FA M
Description	Male appliance connector with solder contacts for printed circuits	Male appliance connector with octagonal flange screw fixing and solder contacts	male appliance connector with rectangular flange screw fixing and solder contacts
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61984, DIN EN 61984 (VDE 0627)		
Approvals	-		
Technical Data			
Ambient Temperature	-40 °C to +90 °C	-30 °C to +90 °C	Connector: -30 °C to +90 °C Seal: -30 °C to +90 °C
Housing/Grip/Screw Coupling	PC GF		
Contact Holder	PC GF		
Contact	CuZn, tin-plated		
Flammability Class	Contact holder material: UL94 V-0		
Mechanical Data			
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)		
Electrical Data			
Contact Resistance	≤ 10 mΩ		
Rated Voltage	GO 51 UM: 250 V AC/DC GO 6 UM: 50 V AC/DC GO 60 UM: 250 V AC/DC	GO 51 FAV M: 250 V AC/DC GO 6 FAV M: 50 V AC/DC GO 60 FAV M: 250 V AC/DC	GO 070 FA M: 50 V AC/DC GO 610 FA M: 250 V AC/DC GO 700 FA M: 250 V AC/DC
Rated Current at +40 °C	6 A		
Pollution Degree	3		
Accessories			
Scope of Delivery or Accessories (incl.)	1 surface mounted male connector	1 surface mounted male connector, 1 flat seal	
Technical Drawing			

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Specific Characteristics	Characteristics
932352100	GO 51 UM	5 + PE	solder	Plug-in compatibility with: GO 51 WF	  
932350100	GO 6 UM	6	solder	Plug-in compatibility with: GO 6 WF	  
932344100	GO 60 UM	6	solder	Plug-in compatibility with: GO 60 WF	  
932919100	GO 51 FAV M	5 + PE	solder	Plug-in compatibility with: GO 51 WF	  
932669100	GO 6 FAV M	6	solder	Plug-in compatibility with: GO 6 WF	  
932918100	GO 60 FAV M	6	solder	Plug-in compatibility with: GO 60 WF	  
932470100	GO 070 FA M	7	solder	Plug-in compatibility with: GO 070 WF	  
932478100	GO 610 FA M	6 + PE	solder	Plug-in compatibility with: GO 610 WF	  
932477100	GO 700 FA M	7	solder	Plug-in compatibility with: GO 700 WF	