### PHG.1B.306.CLLD42Z





Image for illustrative purpose only

## **Summary**

#### Request a quote

Catalan	
Catalog	
Number of contacts Low Voltage	6
Wire Size/AWG	30 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Push-pull
Jacket cable outside diameter [mm]	3.10 - 4.20 mm
Size	1B
Suggested matching part	FGG.1B.306.CLAD42Z
Series	B - Indoor keyed

## **Technical details**

### **Electrical Configuration**

Contact Termination Low voltage  R (max) 6.1 mOhm  Insert configuration value 1B.306 - 6 Low Voltage Insulator L: PEEK (UL 94 / V-0/1.5)  Rated current 7 A  Vtest (contact-contact) 1.5 kV (DC)  Vtest (contact-shell) 1.7 kV (DC)  Max. Solid Conductor 0.34 mm^2 (AWG 22)  Max. Stranded Conductor 0.34 mm^2 (AWG 22)  Bucket Dia. 0.8 mm (0.031in)  Contact Dia. 0.7 mm (0.028in)  Wire Size/AWG 30 - 22  Gender Standard  Form & Material  Shell style / Model id PH - Free receptacle, cable collet and nut for fitting a bend relief  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system Push-pull  Keying G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour Grey  Variant Nut for fitting a bend relief		
R (max)  6.1 mOhm  Insert configuration value  18.306 - 6 Low Voltage  Insulator  L: PEEK (UL 94 / V-0/1.5)  Rated current  7 A  Vtest (contact-contact)  1.5 kV (DC)  Vtest (contact-shell)  1.7 kV (DC)  Max. Solid Conductor  0.34 mm^2 (AWG 22)  Max. Stranded Conductor  0.34 mm^2 (AWG 22)  Bucket Dia.  0.8 mm (0.031in)  Contact Dia.  0.7 mm (0.028in)  Wire Size/AWG  30 - 22  Gender  Standard  Form & Material  Shell style / Model id  PH - Free receptacle, cable collet and nut for fitting a bend relief  Socket / Receptacle  Housing material  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS Q N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Grey  Variant  Nut for fitting a bend relief	Number of contacts Low Voltage	6
Insert configuration value  IB.306 - 6 Low Voltage Insulator  L: PEEK (UL 94 / V-0/1.5)  Rated current  7 A  Vtest (contact-contact)  1.5 kV (DC)  Wax. Solid Conductor  Max. Solid Conductor  Max. Stranded Conductor  0.34 mm^2 (AWG 22)  Max. Stranded Conductor  0.34 mm (0.031in)  Contact Dia.  0.7 mm (0.028in)  Wire Size/AWG  30 - 22  Gender  Standard  Socket / Model id  PH - Free receptacle, cable collet and nut for fitting a bend relief  Free  Housing material  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS Q N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Grey  Variant  Nut for fitting a bend relief	Contact Termination Low voltage	Solder
Insulator  Rated current  7 A  Vtest (contact-contact)  1.5 kV (DC)  Vtest (contact-shell)  1.7 kV (DC)  Max. Solid Conductor  0.34 mm^2 (AWG 22)  Max. Stranded Conductor  0.34 mm^2 (AWG 22)  Bucket Dia.  0.8 mm (0.031in)  Contact Dia.  0.7 mm (0.028in)  Wire Size/AWG  30 - 22  Gender  Standard  Form & Material  Shell style / Model id  PH - Free receptacle, cable collet and nut for fitting a bend relief  Socket / Receptacle  Housing material  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Grey  Variant  Nut for fitting a bend relief	R (max)	6.1 mOhm
Vtest (contact-contact)  Vtest (contact-shell)  1.7 kV (DC)  Max. Solid Conductor  0.34 mm^2 (AWG 22)  Max. Stranded Conductor  0.34 mm^2 (AWG 22)  Bucket Dia.  0.8 mm (0.031in)  Contact Dia.  0.7 mm (0.028in)  Wire Size/AWG  30 - 22  Gender  Standard  Form & Material  Shell style / Model id  PH - Free receptacle, cable collet and nut for fitting a bend relief  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Variant  Nut for fitting a bend relief	Insert configuration value	1B.306 - 6 Low Voltage
Vtest (contact-contact)       1.5 kV (DC)         Vtest (contact-shell)       1.7 kV (DC)         Max. Solid Conductor       0.34 mm^2 (AWG 22)         Max. Stranded Conductor       0.34 mm^2 (AWG 22)         Bucket Dia.       0.8 mm (0.031in)         Contact Dia.       0.7 mm (0.028in)         Wire Size/AWG       30 - 22         Gender       Standard         Form & Material         Shell style / Model id       PH - Free receptacle, cable collet and nut for fitting a bend relief         Socket / Receptacle       Free         Housing material       Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces         Locking system       Push-pull         Keying       G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)         Colour       Grey         Variant       Nut for fitting a bend relief	Insulator	L: PEEK (UL 94 / V-0/1.5)
Nest (contact-shell)  1.7 kV (DC)  Max. Solid Conductor  0.34 mm^2 (AWG 22)  Max. Stranded Conductor  0.34 mm^2 (AWG 22)  Bucket Dia.  0.8 mm (0.031in)  Contact Dia.  0.7 mm (0.028in)  Wire Size/AWG  30 - 22  Gender  Standard  Free receptacle, cable collet and nut for fitting a bend relief  Socket / Receptacle  Housing material  Locking system  Push-pull  Keying  Grey  Variant  Nut for fitting a bend relief  Free  O.34 mm^2 (AWG 22)  B. AWG 22)  B. Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Colour  Grey  Variant  Nut for fitting a bend relief	Rated current	7 A
Max. Solid Conductor  Max. Stranded Conductor  0.34 mm^2 (AWG 22)  Bucket Dia.  0.8 mm (0.031in)  Contact Dia.  0.7 mm (0.028in)  Wire Size/AWG  30 - 22  Gender  Standard  Form & Material  Shell style / Model id  PH - Free receptacle, cable collet and nut for fitting a bend relief  Socket / Receptacle  Free  Housing material  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Grey  Variant  Nut for fitting a bend relief	Vtest (contact-contact)	1.5 kV (DC)
Max. Stranded Conductor  Bucket Dia.  0.8 mm (0.031in)  Contact Dia.  0.7 mm (0.028in)  Wire Size/AWG  30 - 22  Gender  Standard  Form & Material  Shell style / Model id  PH - Free receptacle, cable collet and nut for fitting a bend relief  Socket / Receptacle  Housing material  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Grey  Variant  Nut for fitting a bend relief	Vtest (contact-shell)	1.7 kV (DC)
Bucket Dia.  0.8 mm (0.031in)  Contact Dia.  0.7 mm (0.028in)  Wire Size/AWG  30 - 22  Gender  Standard  Form & Material  Shell style / Model id  Socket / Receptacle  Housing material  Locking system  Push-pull  Keying  Grey  Variant  O.8 mm (0.031in)  0.7 mm (0.028in)  8 mm (0.028in)  9 hour (0.028in)  8 proved (0.028in)  8 proved (0.028in)  9 hour (0.028in)	Max. Solid Conductor	0.34 mm^2 (AWG 22)
Contact Dia.  0.7 mm (0.028in)  30 - 22  Gender Standard  Form & Material  Shell style / Model id PH - Free receptacle, cable collet and nut for fitting a bend relief  Socket / Receptacle Free  Housing material Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system Push-pull  Keying G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour Grey  Variant Nut for fitting a bend relief	Max. Stranded Conductor	0.34 mm^2 (AWG 22)
Wire Size/AWG  Gender  Standard  Form & Material  Shell style / Model id  Socket / Receptacle  Housing material  Locking system  Keying  Gery  Variant  Standard  Standard  Standard  PH - Free receptacle, cable collet and nut for fitting a bend relief  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Colour  Grey  Variant  Nut for fitting a bend relief	Bucket Dia.	0.8 mm (0.031in)
Gender  Standard  Form & Material  Shell style / Model id  Shell style / Receptacle  Housing material  Locking system  Keying  Gery  Variant  Standard  PH - Free receptacle, cable collet and nut for fitting a bend relief  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Free  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Free  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Free  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces	Contact Dia.	0.7 mm (0.028in)
Shell style / Model id  PH - Free receptacle, cable collet and nut for fitting a bend relief  Socket / Receptacle  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Grey  Variant  Nut for fitting a bend relief	Wire Size/AWG	30 - 22
Shell style / Model id  PH - Free receptacle, cable collet and nut for fitting a bend relief  Socket / Receptacle  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Grey  Variant  Nut for fitting a bend relief	Gender	Standard
bend relief  Socket / Receptacle  Free  Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Grey  Variant  Nut for fitting a bend relief	Form & Material	
Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Locking system  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Grey  Variant  Nut for fitting a bend relief	Shell style / Model id	PH - Free receptacle, cable collet and nut for fitting a bend relief
Housing material  collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces  Push-pull  Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Grey  Variant  Nut for fitting a bend relief	Socket / Receptacle	Free
Keying  G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  Colour  Grey  Variant  Nut for fitting a bend relief	Housing material	collet nut, nickel plated [SAE AMS QQ N 290] brass
Colour Grey  Variant Nut for fitting a bend relief	Locking system	Push-pull
Variant Nut for fitting a bend relief	Keying	
<u> </u>	Colour	Grey
Weight 20.65 g	Variant	Nut for fitting a bend relief
	Weight	20.65 g

#### **Environment**

Technical domain	Audio Video, Energy and Industrial, Medical, Semiconductor, Specialties and Other, Test and Measurement, Transportation, Aerospace and UAV	
Environmental sealing (IP rating)	IP50	
Endurance	5000 mating cycles	
Temperature range	-55°C / $+250$ °C (max. temperature valid for short periods of use.)	
Climatical Category	50/175/21	
Humidity (max)	<=95% [at 60 deg C /140 F]	
Shielding (min)	75 dB (10 MHz)	
Shielding (min)	40 dB (1 GHz)	
Shock Resistance	100 g [ 6 ms]	
Vibration	15 g [10 Hz - 2000 Hz]	
Salt Spray Corrosion	>1000 hr	
Cable fixation		
Cable termination protection	For cable bend relief	
Fixation type	Cable collet	
Jacket cable outside diameter [mm]	3.10 - 4.20 mm	

# **Recommended By Lemo**

### Accessories

Compatible cap	BRF.1S.200.NAS	
Tools		
Spanner	DCP.91.001.TN	
Spanner wrench	DCD.1B.ZZZ.PA090	

### **Cables**

Cable PartNumber	Material	Colour	Cable image
CMN.06.T26.037QGZE	TPR (medical)	Grey	
CMN.06.T28.031PGCE	PVC	GREY	
CMN.06.T28.031PGZE		grey	
CMN.06.T28.031PNCE	PVC	Black	
CMN.06.T28.031PNZE			
CMN.06.T28.042QBCE	TPR (medical)		
60260	PTFE	White	