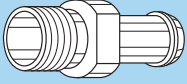
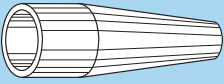


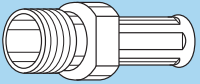
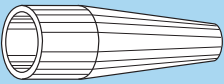
Variant

Bend relief for models with collet (letter Z in the variant position)

	Need to be ordered
	
Reference	Need to be ordered separately (see page 33)
C15Z	GMA.00.0●●.D●
C17Z	GMA.00.0●●.D●
C22Z	-
C27Z	GMD or GMB.00.0●●.D●
C31Z	GMD or GMB.00.0●●.D●
C52Z	GMA.0B.0●●.D●
K37Z	GMA.0B.0●●.D●
K42Z	GMA.0B.0●●.D●
D42Z	GMA.0B.0●●.D●
D52Z	GMA.0B.0●●.D●

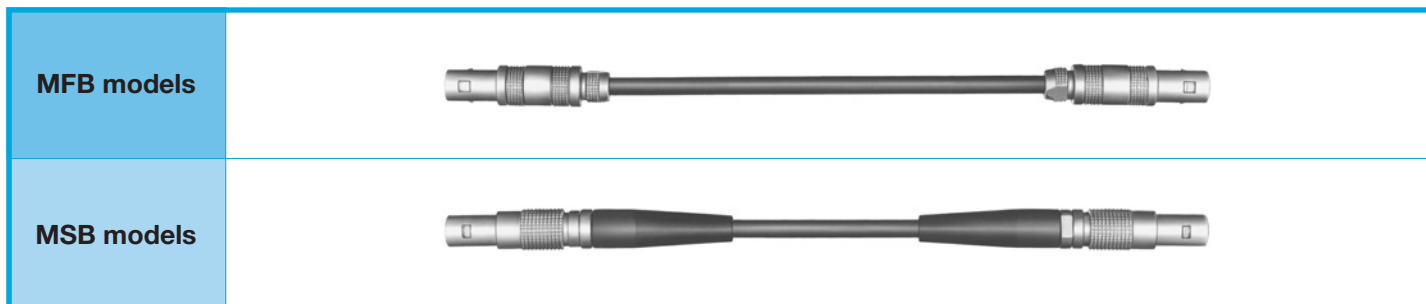
Note: The "GMD" are thin bend reliefs (for very flexible cables)

Bend relief for models for cable crimping (no letter in the variant position) The bend relief can be fitted directly over the crimp ferrule

	Need to be ordered
	
Reference	Need to be ordered separately (see page 33)
E24	GMD or GMB.00.0●●.D●
E25	GMD or GMB.00.0●●.D●
E30	GMD or GMB.00.0●●.D●
E31	GMD or GMB.00.0●●.D●
E32	GMD or GMB.00.0●●.D●
E35	-
E44	-
E52	-
E56	-

Note: The "GMD" are thin bend reliefs (for very flexible cables)

Assembled cables



Delay lines

Part number	Delay (ns)	Part number
MFB.00.250.RTE005	0.5	MSB.00.250.RTE005
MFB.00.250.RTE010	1.0	MSB.00.250.RTE010
MFB.00.250.RTE020	2.0	MSB.00.250.RTE020
MFB.00.250.RTE030	3.0	MSB.00.250.RTE030
MFB.00.250.RTE040	4.0	MSB.00.250.RTE040
MFB.00.250.RTE050	5.0	MSB.00.250.RTE050
MFB.00.250.RTE060	6.0	MSB.00.250.RTE060
MFB.00.250.RTE080	8.0	MSB.00.250.RTE080
MFB.00.250.RTE100	10.0	MSB.00.250.RTE100
MFB.00.250.RTE160	16.0	MSB.00.250.RTE160
MFB.00.250.RTE200	20.0	MSB.00.250.RTE200
MFB.00.250.RTE320	32.0	MSB.00.250.RTE320
MFB.00.250.RTE640	64.0	MSB.00.250.RTE640

Assembled Cables

Part number	Length (cm)	Part number
MFB.00.250.LTE010	10	MSB.00.250.LTE010
MFB.00.250.LTE020	20	MSB.00.250.LTE020
MFB.00.250.LTE030	30	MSB.00.250.LTE030
MFB.00.250.LTE040	40	MSB.00.250.LTE040
MFB.00.250.LTE050	50	MSB.00.250.LTE050
MFB.00.250.LTE060	60	MSB.00.250.LTE060
MFB.00.250.LTE080	80	MSB.00.250.LTE080
MFB.00.250.LTE100	100	MSB.00.250.LTE100
MFB.00.250.LTE150	150	MSB.00.250.LTE150
MFB.00.250.LTE200	200	MSB.00.250.LTE200
MFB.00.250.LTE300	300	MSB.00.250.LTE300
MFB.00.250.LTE400	400	MSB.00.250.LTE400
MFB.00.250.LTE500	500	MSB.00.250.LTE500

Note: the standard cable used to manufacture these cable assemblies is according to IEC.50.2.1 standard. On request this type of cable can be replaced by other coaxial cables. Other cable lengths are available on request.

Accessories



Fitting of the cord

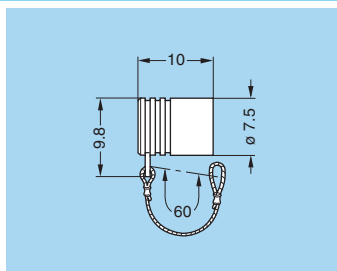
Slide the plug into the loop of the cord. Place the loop into the groove in front of the collet nut and tighten the loop.

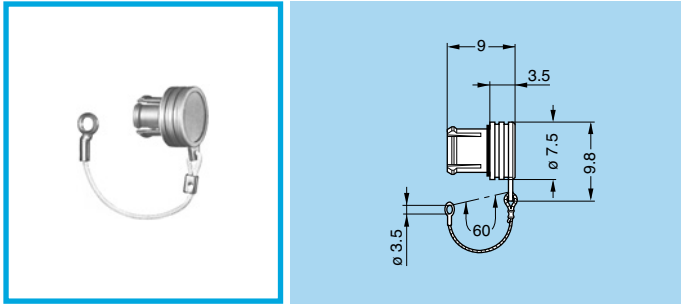
BFG Caps for plug with or without keying

Part number	Weight (g)
BFG.00.100.PCSG	0.7

Note: upon request this cap can be supplied in black and the last letter "G" of the part number should be replaced with "N".

- Body material: Polyoxymethylen (POM) grey
- Cord material: Polyamid 6, grey
- O-ring material: Silicone rubber
- Maximum operating temperature: 100°C
- Watertightness: IP61 according to IEC 60529





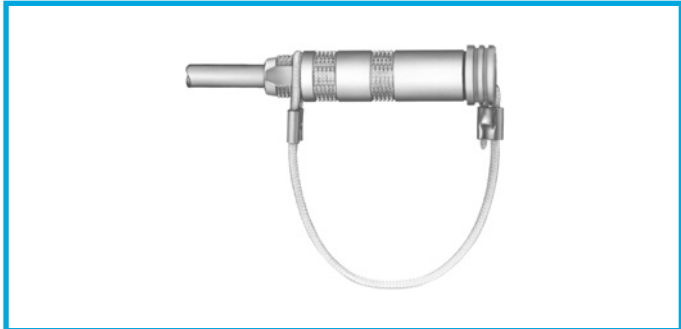
- Body material: Polyoxymethylen (POM) grey
- Cord material: Polyamid 6, grey

BRA Blanking cap for fixed socket and free straight socket

Part number	Weight (g)
BRA.00.200.PCSG	0.6

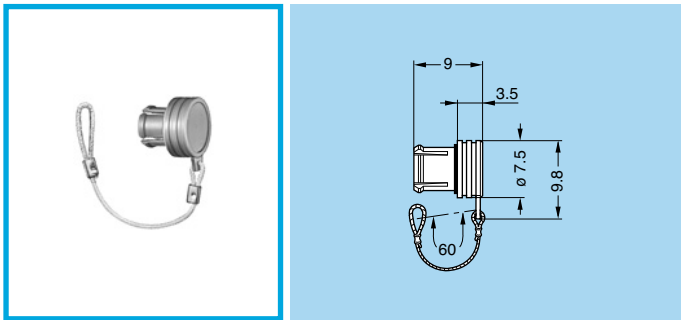
Note: upon request this cap can be supplied in black and the last letter "G" of the part number should be replaced with "N".

- O-ring material: Silicone rubber
- Maximum operating temperature: 100°C
- Watertightness: IP61 according to IEC 60529



Fitting of the cord

Slide the socket into the loop of the cord. Place the loop into the groove in front of the collet nut and tighten the loop.

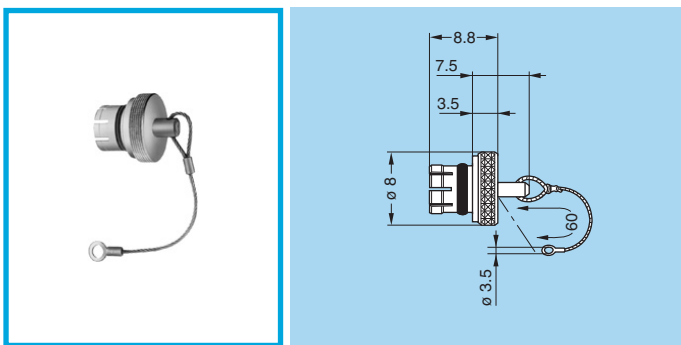


BRD Blanking cap for free socket

Part number	Weight (g)
BRD.00.200.PCSG	0.5

Note: upon request this cap can be supplied in black and the last letter "G" of the part number should be replaced with "N".

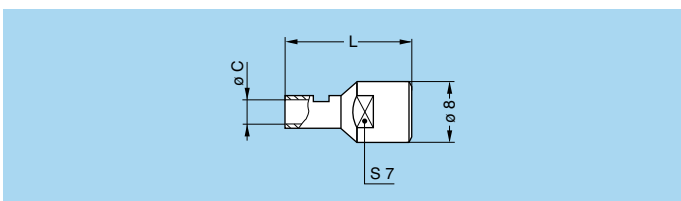
- Body material: Polyoxymethylen (POM) grey
- Cord material: Polyamid 6, grey
- O-ring material: Silicone rubber
- Maximum operating temperature: 100°C
- Watertightness: IP61 according to IEC 60529



BRE Blanking cap for fixed socket, free socket and coupler

Part number	Weight (g)
BRE.00.200.NAS	6.5

- Body material: Brass (UNS C 38500), nickel-plated (3 µm)
- Cable material: Stainless steel
- O-ring material: Silicone rubber or FPM
- Maximum operating temperature: 250°C
- Watertightness: IP61 according to IEC 60529

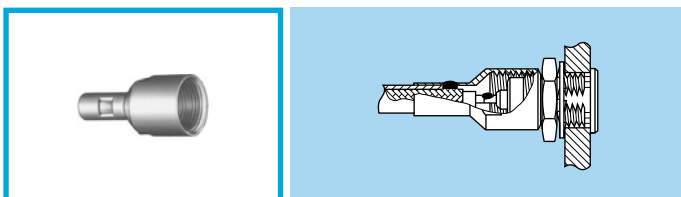


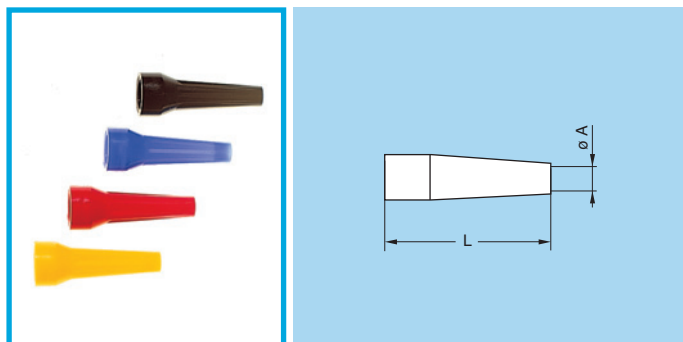
GCD Earthing cap

Part number	Cable group	Dim.	
		L	C
GCD.00.020.LA	1	12	2.0
GCD.00.032.LA	2-3-4	16	3.2
GCD.00.050.LA	6	19	5.0

Note: the shield braid of the cable should be soldered onto the back of the cap screwed on the socket outer shell.

- Material: Brass (UNS C 38500) gold-plated (0.5 µm)



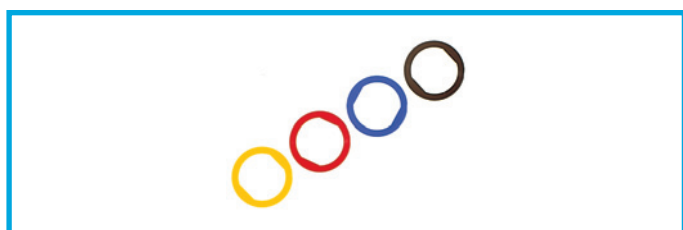


Note:

- a) for use with crimp models and nut for fitting a bend relief.
- b) the last letter of the part number “•” specifies the colour. Refer to the table below, for GRA washers, to define another colour and replace the letter “•” by the one corresponding to the colour required.
- c) material: Polyurethan (Desmopan 786)
- d) operating temperature: -40°C + 80°C

GM. Bend relief (Polyurethane)

Part number	Dim.		ø Cable		Nut for fitting the bend relief part nb
	A	L	max	min	
GMA.00.012.D•	1.2	22	1.4	1.1	FFM.00.130.LN
GMA.00.018.D•	1.8	22	2.1	1.8	FFM.00.130.LN
GMB.00.025.D•	2.5	22	2.8	2.5	FFM.00.130.LN
GMB.00.028.D•	2.8	22	3.1	2.8	FFM.00.130.LN
GMB.00.032.D•	3.2	22	3.5	3.2	FFM.00.130.LN
GMD.00.025.D•	2.5	22	2.8	2.5	FFM.00.130.LN
GMD.00.028.D•	2.8	22	3.1	2.8	FFM.00.130.LN
GMD.00.032.D•	3.2	22	3.5	3.2	FFM.00.130.LN
GMA.0B.025.D•	2.5	24	2.9	2.5	FFM.0B.130.LC
GMA.0B.030.D•	3.0	24	3.4	3.0	FFM.0B.130.LC
GMB.0B.035.D•	3.5	24	3.9	3.5	FFM.0B.130.LC
GMB.0B.040.D•	4.0	24	4.4	4.0	FFM.0B.130.LC
GMB.0B.045.D•	4.5	24	5.2	4.5	FFM.0B.130.LC

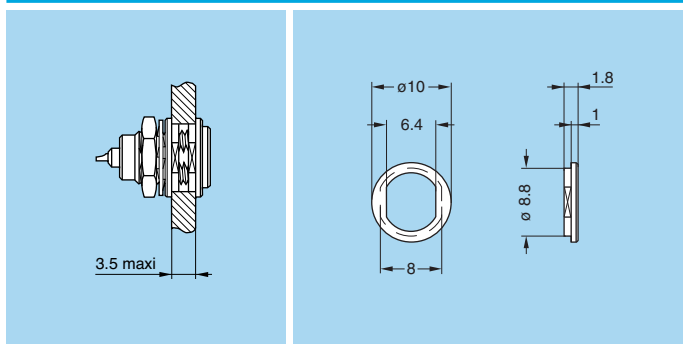


GRA Insulating washers

Part number	Weight (g)
GRA.00.269.G•	0.1

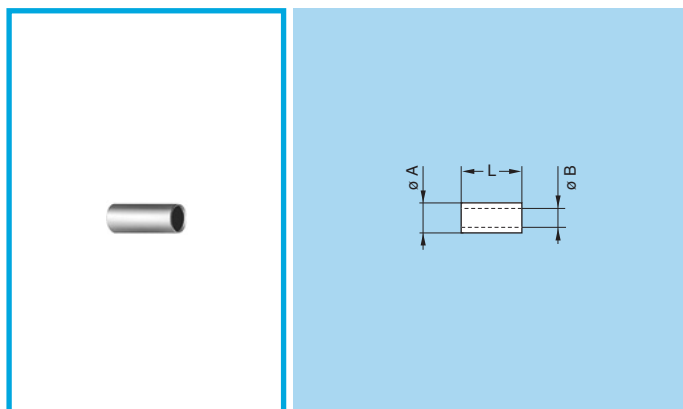
Note:

- a) sockets and plugs mounted on panels can be fitted with insulating washers. The nine colours available combined with those for the bend reliefs makes colour coding possible.
- b) the last letter of the part number “•” specifies the colour. Refer to the table below to define another colour and replace the letter “•” by the one corresponding to the colour required.
- c) material: Polyamid
- d) operating temperature: -40°C + 80°C



Ref.	Colour	Ref.	Colour	Ref.	Colour
A	blue	J	yellow	R	red
B	white	M	brown	S	orange
G	grey	N	black	V	green

Spare Parts

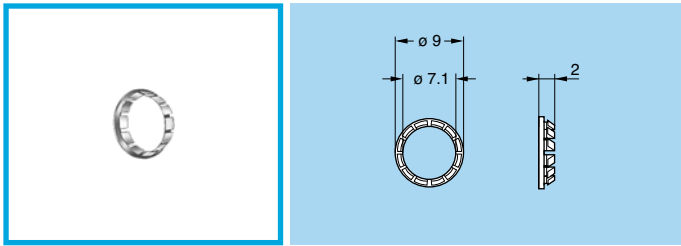


FFS Crimp ferrule

Part number	Cable group	Dim.		
		øA	øB	L
FFS.00.160.DN	1	3.1	2.4	8
FFS.00.161.MN	2-3-4	3.8	3.05	8
FFS.00.162.DN	8	4.4	3.4	8
FFS.00.163.DN	5	5.3	4.4	8
FFS.00.164.DN	6	6.2	5.25	11
CRK.0A.160.DN	7	6.2	5.5	11

Note: sockets and plugs to be crimped are always supplied with a crimp ferrule. To order this accessory separately, use the above part numbers.

• Material: Copper (UNS C 18700) nickel-plated (3µm)

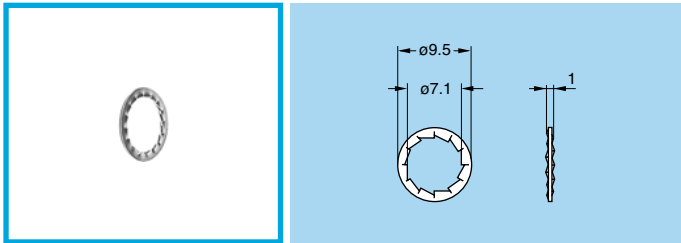


GBB Tapered washer

Part number	Weight (g)
GBB.00.250.LN	0.2

Note: to order this accessory separately, use the above part number.

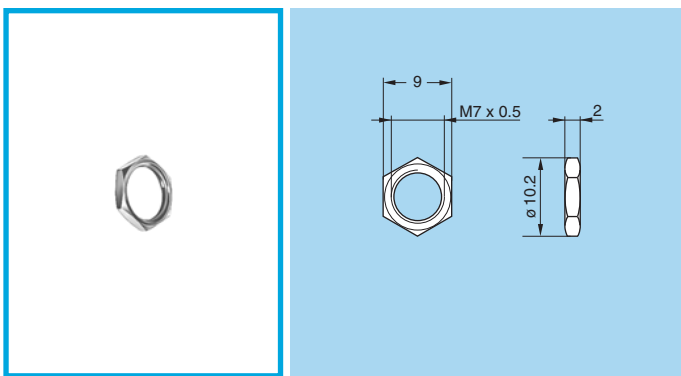
- Material: Brass (UNS C 38500) nickel-plated (3 μ m)



GBA Locking washer

Part number	Weight (g)
GBA.00.250.FN	0.2

Note: sockets and plugs are always supplied with a locking washer. To order this accessory separately, use the above part number.

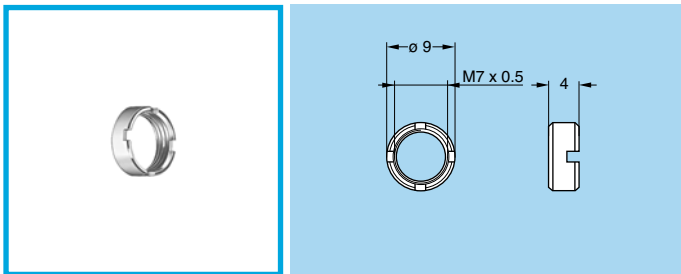


GEA Hexagonal nut

Part number	Weight (g)
GEA.00.240.LN	0.6

Note: sockets and plugs are supplied with a hexagonal nut as standard. To order this accessory separately, use the above part number. The last letters "LN" of the part number refer to the nut material and treatment. If a nut in aluminium alloy is desired, replace the last letters of the part number by "PT".

- Material:
 - Brass (UNS C 38500) nickel-plated (3 μ m)
 - Aluminium alloy natural anodized

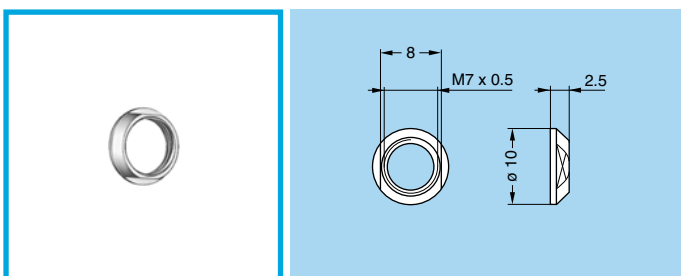


GEB Round nut

Part number	Weight (g)	Standard for models
GEB.00.240.LN	0.8	ECP, ESG

Note: to order this accessory separately, use the above part number.

- Material: Brass (UNS C 38500) nickel-plated (3 μ m)

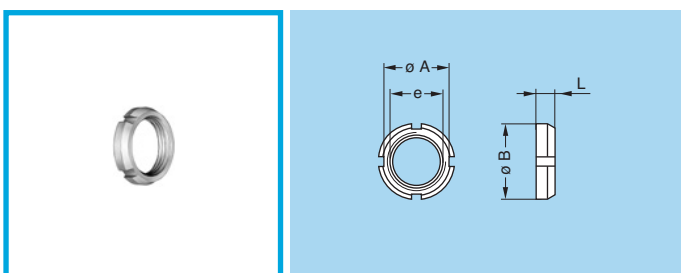


GEC Conical nut

Part number	Weight (g)
GEC.00.240.LN	0.6

Note: to order this accessory separately, use the above part number.

- Material: Brass (UNS C 38500) nickel-plated (3 μ m)

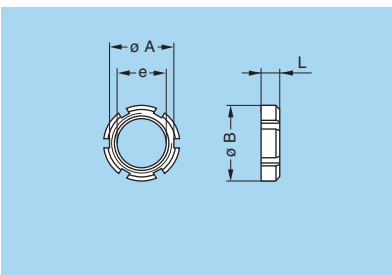


GEG Notched nut

Part number	Dimensions (mm)				Standard for models
	A	B	e	L	
GEG.00.240.LN	8.7	10	M7 x 0.5	2.5	EPE, EPS, EPR, PES, PFS, PLK, VPS, HEP

Note: to order this accessory separately, use the above part numbers.

- Material: Brass (UNS C 38500) nickel-plated (3 μ m)

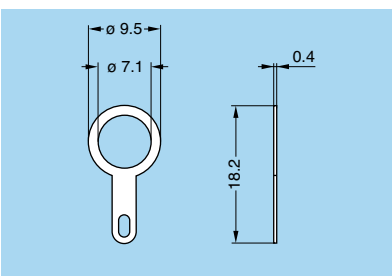


GEB Slotted nut

Part number	Dimensions (mm)				Standard for models
	A	B	e	L	
GEB.00.242.LN	8.5	10	M7 x 0.5	2.5	ELF, XBG, XRG, XSG, EXG

Note: to order this accessory separately, use the above part numbers.

- Material: Brass (UNS C 38500) nicked-plated (3 μ m)

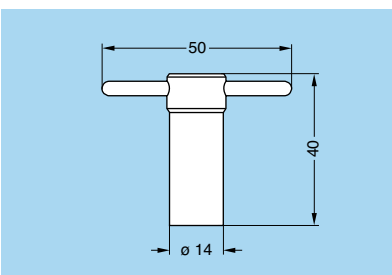
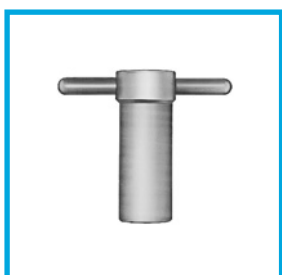


GCA Earthing Washer

Part number	Weight (g)
GCA.00.255.LT	0.2

- Material: Brass (UNS C 27400) treated CuSnZn (2 μ m)

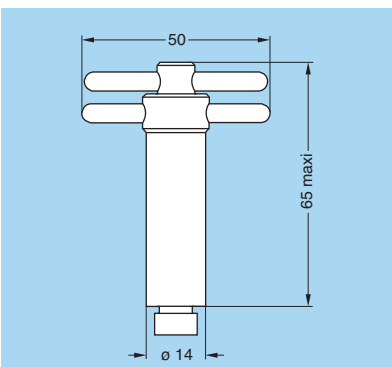
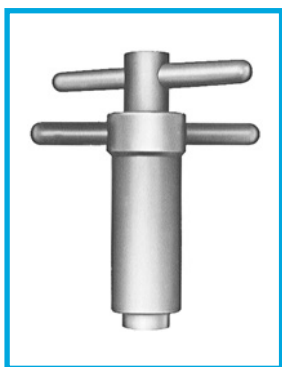
Tooling



DCG Spanner for hexagonal nut

Part number	Part number of the nut
DCG.91.149.0TN	GEA.00.240.LN

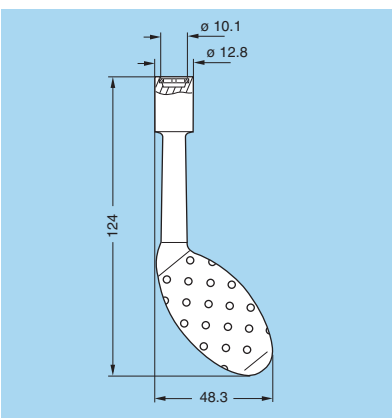
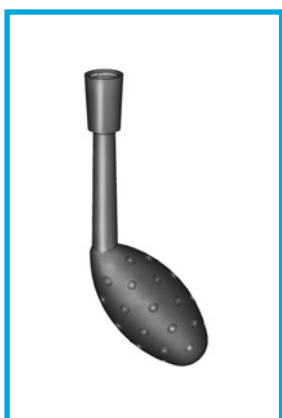
- Material: Blackened steel



DCA Spanner for hexagonal nut with locator for flats on socket thread

Part number	Part number of the nut
DCA.91.149.0TN	GEA.00.240.LN

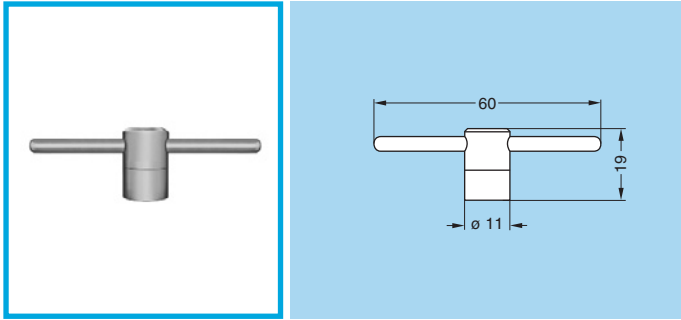
- Material: Blackened steel



DCH Spanner for notched nut

Part number	Part number of the nut
DCH.91.101.PA	GEG.00.240.LN

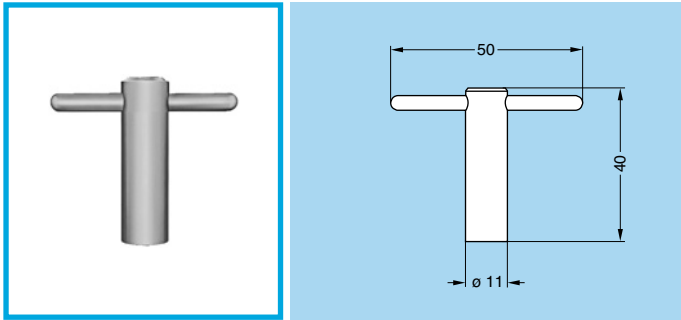
- Material: blue polyurethane



DCB Spanner for slotted nut

Part number	Part number of the nut
DCB.91.455.0LN	GEB.00.242.LN

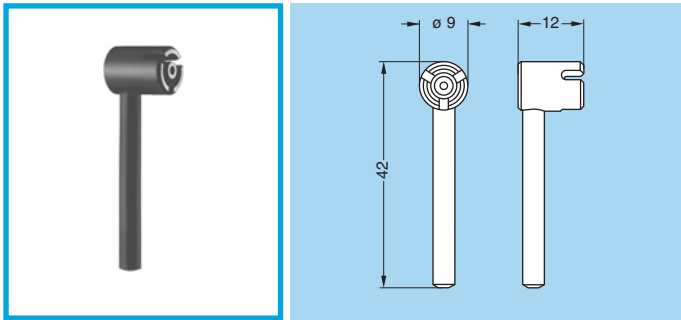
- Material: Steel, nicked plated



DCB Spanner for round nut

Part number	Part number of the nut
DCB.91.119.0TN	GEB.00.240.LN

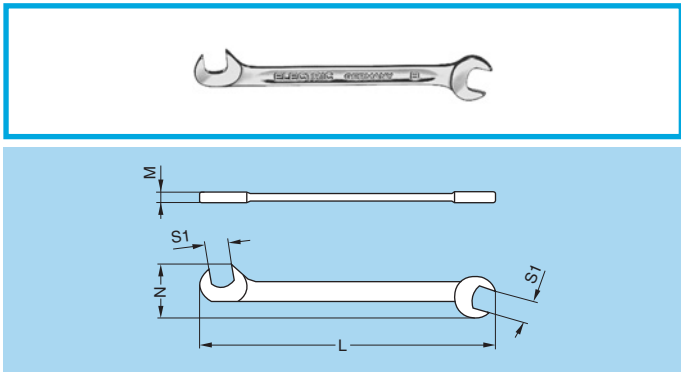
- Material: Blackened steel



DCN Spanner for assembling plug with 3 latches

Part number
DCN.91.905.0TK

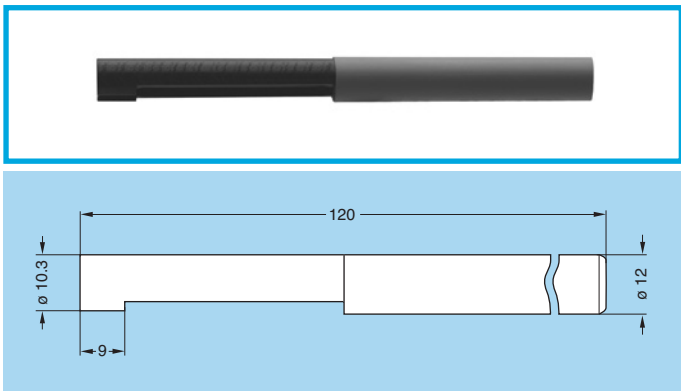
- Material: Blackened steel



DCP Flat spanner for collet nut

Part number	Dimensions			
	L	M	N	S1
DCP.99.045.TC	70	2	10.5	4.5
DCP.99.050.TC	78	2	12.6	5.0
DCP.99.055.TC	78	2	12.6	5.5
DCP.99.060.TC	78	2	12.6	6.0

- Material: Chrome-plated steel



DCR Extraction tool for plugs

Part number
DCR.91.106.0PN

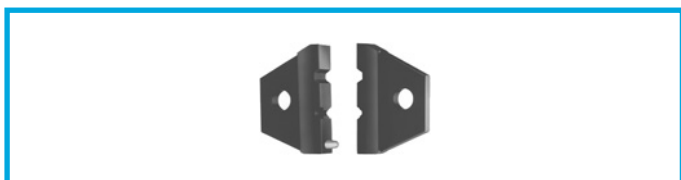
- Material: Black Polypropylene

Note: this type of tool has been produced in order to facilitate the mating and unmating of plugs and is particularly useful in high density applications.



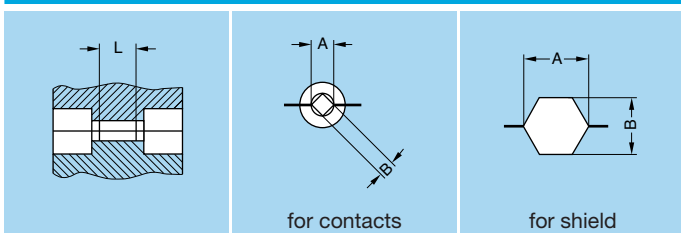
DPE Crimping tool with die

Part number	Cable group	Crimp collet ref.
DPE.99.000.0K	Crimping tool with no die	
DPE.99.123.1K	1	E24
DPE.99.123.8K	2-3-4	E30, E31
DPE.99.124.3K	8	E35
DPE.99.125.2K	5	E44
DPE.99.176.2K	6-7	E52, E56



DPN Dies

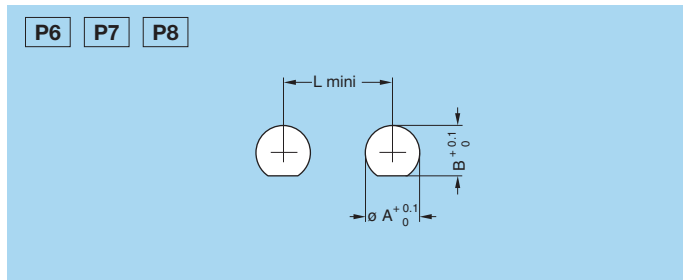
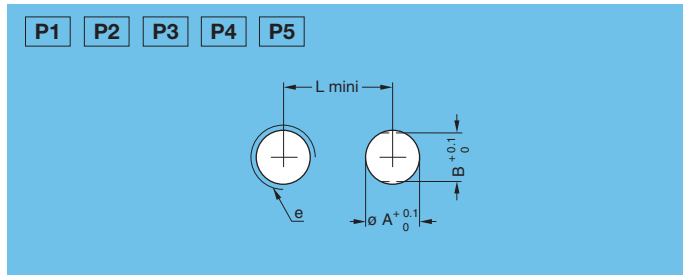
Part number	Cable group	Die dimension				
		For contacts			For shield	
		A	B	L	A	B
DPN.99.123.1K	1	1.29	0.91	2.0	3.10	2.70
DPN.99.123.8K	2-3-4	1.29	0.91	2.0	3.80	3.30
DPN.99.124.3K	8	1.29	0.91	2.0	4.36	3.78
DPN.99.125.2K	5	1.29	0.91	2.0	5.20	4.50
DPN.99.176.2K	6-7	1.71	1.21	2.5	6.20	5.37



- Dies material: Blackened steel

Panel cut-outs

Panel cut-out

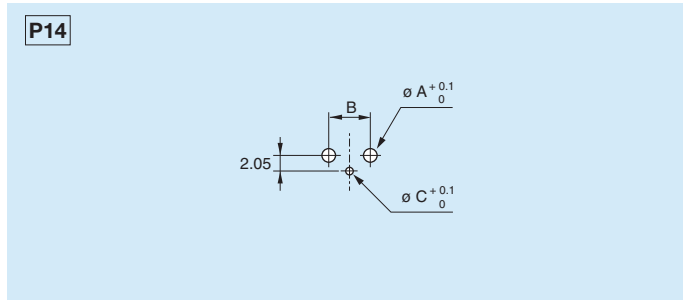
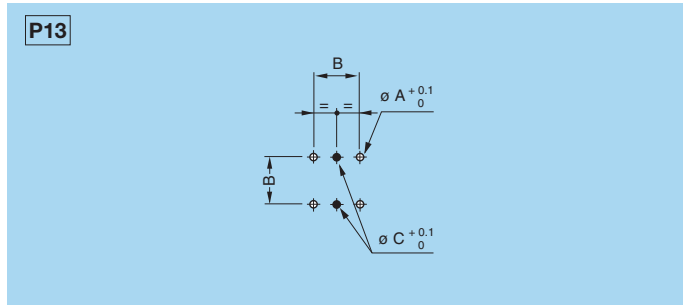
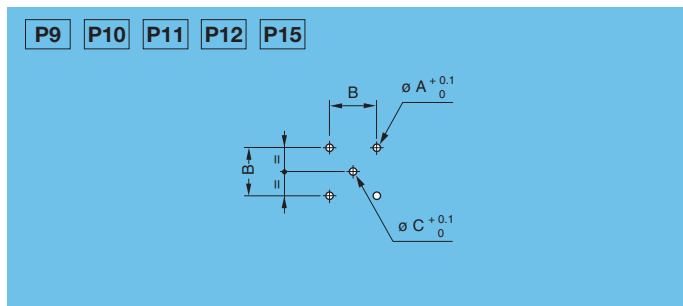


Cut-out	Model	Dimensions			
		A	B	L	e
P1	ECP-EPE-EPR-EPS-ERC EWF-EXG-FAB-HGP HGW-SWH-VPS-XBG XSG-XRG	7.1	-	14.5	-
P2	EWV	-	-	12.0	M7x0.5
P3	ERC-ERX	-	-	9.0	M7x0.5
P4	ERT	6.92 ^{+0.02}	-	-	-
P5	EHP-ELF-ERA-ERE-ERM ERN-FAA-FAN-PES-PFS PLK-PSA-PSG-PSS ¹⁾	7.1	6.4	14.5	-
P6	ABB	9.7	9.0	15.0	-
P7	ABD	12.9	11.7	20.5	-
P8	ANC	16.1	13.7	24.0	-

Note: 1) If these models are used with a tapered washer GBB, the panel cut-out must be according P1.

Recommended mounting nut torque: 1 Nm.

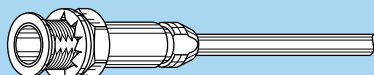
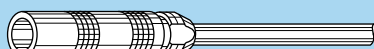
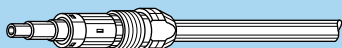
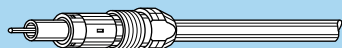
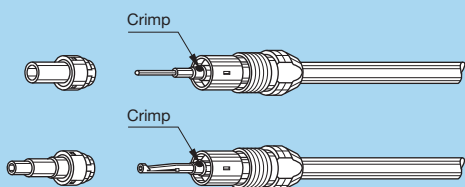
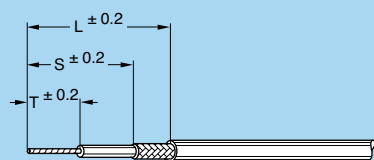
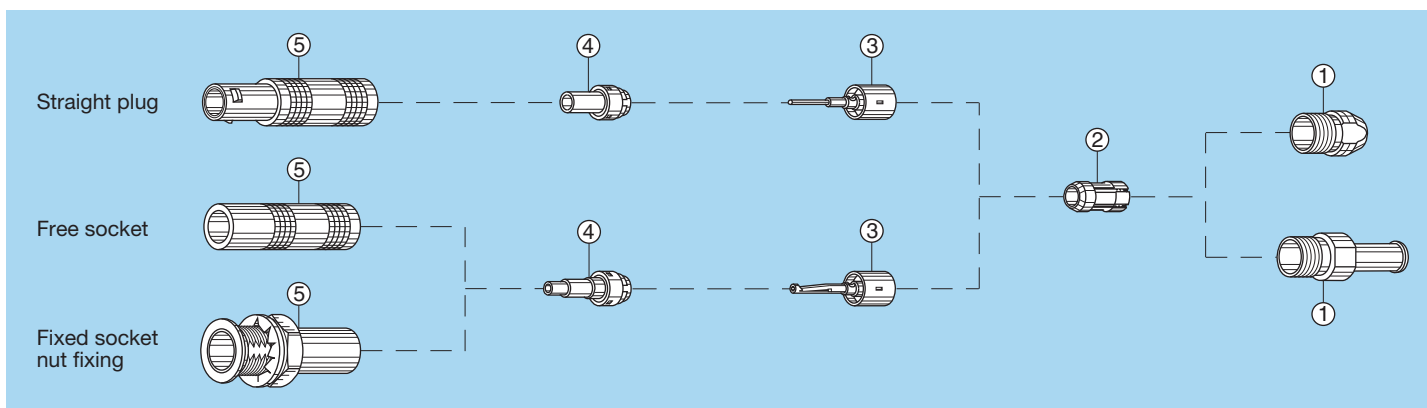
PCB drilling pattern



Drill	Model	Dimensions		
		A	B	C
P9	EPN	1.0	5.08	-
P10	EPA-EPB-EPC-EPL-EPK EPM-FPL	0.8	5.08	0.8
P11	FPA	0.8	5.08	1.1
P12	EPE-EPS-EPR-XSG	0.8	5.08	0.8
P15	HEP, EXG	1.3	5.08	0.8
P13	EPY	0.8	5.08	0.8
P14	XRG	1.8	5.5	0.8

Cable assembly

Terminating of plugs and straight sockets with cable collet M1 M2 M3



1. Cable preparation

First place the bend relief (if to be used) on the cable. Strip the cable according to dimensions below.

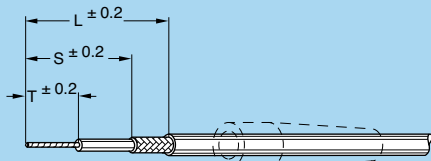
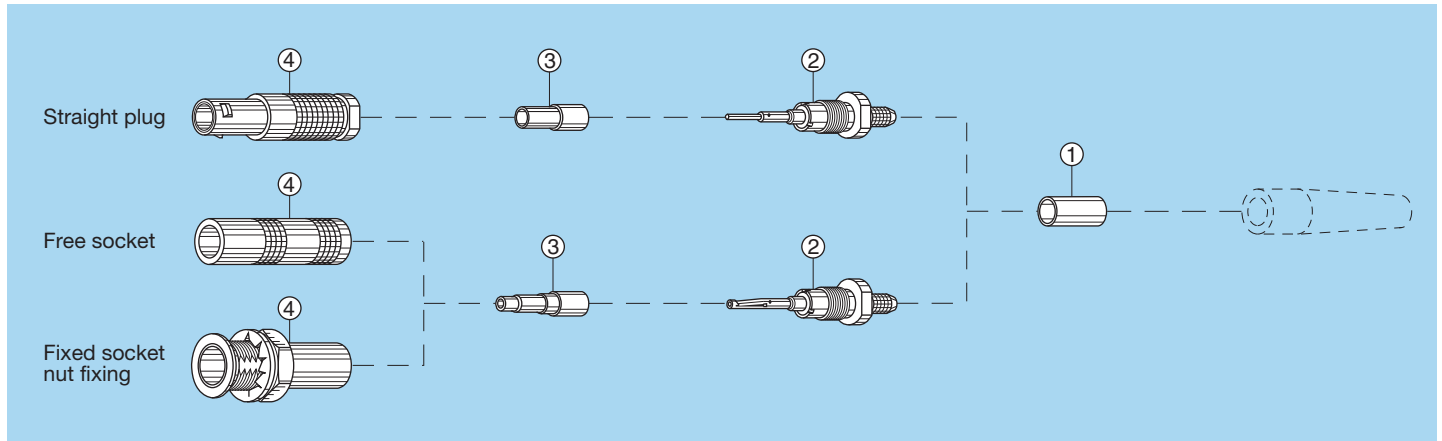
Cable group	M1			M2			M3		
	T	S	L	T	S	L	T	S	L
1-2-3-4-8	4	4.5	9	-	-	-	5	5	8
6-7	-	-	-	7.5	8.5	13	-	-	-

2. Cable termination

- 2.1 Place the collet nut ① and the collet ② on the cable. Fold back the shield braid onto the conical part of the collet, and trim to the outer edge of the collet
- 2.2 Slide the subassembly ③ to trap the shield braiding and solder the central conductor into the contact.
- 2.3 Slide the insulator ④ onto the subassembly ③ until it rests against the earthing sleeve of the subassembly ③.
- 2.4 Slide the assembly into the connector outer shell ⑤. Screw the collet nut ① into the connector outer shell ⑤ using the appropriate tool and tighten to a torque of 0.25 Nm (see "Tooling" on page 35, 36 and 37). Push the bend relief (if used) onto the collet nut.

Note: these terminating instructions apply to the following models:
M1 = FFA, FFE, FFF, PCA, PSA
M2 = FFY
M3 = FFC

Terminating of plugs and straight sockets with cable crimping (crimp contact) M4



1. Cable preparation

First place the bend relief (if to be used) on the cable. Strip the cable according to dimensions below.

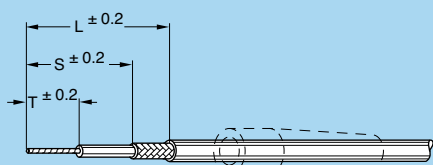
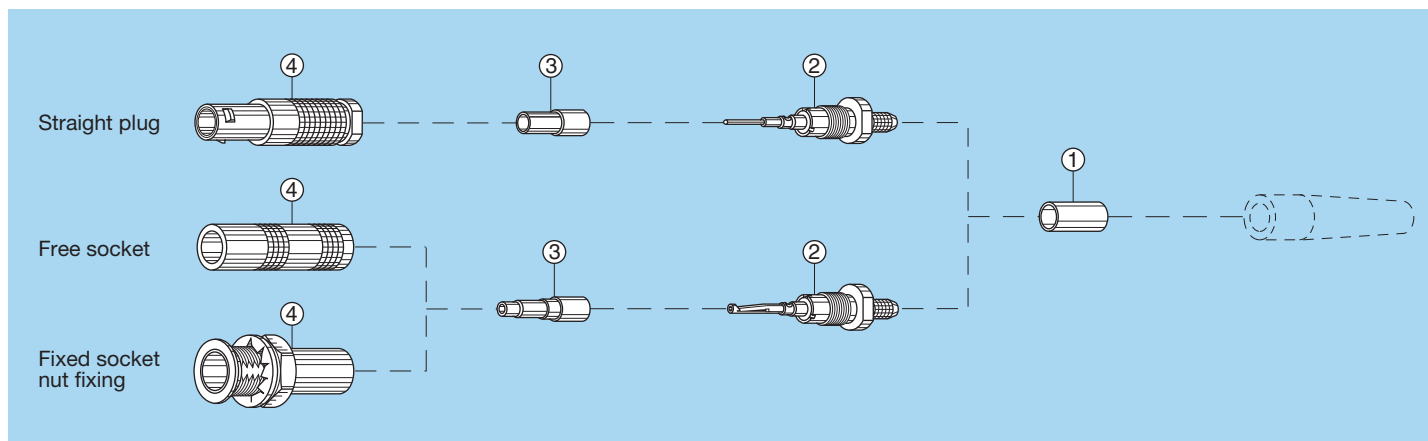
Cable group	M4		
	T	S	L
1-2-3-4-8	7	15	19.5
6-7	7	15	21.5

2. Cable termination

- 2.1 Place crimp ferrule ① on the cable. Widen the shield braid. Slide the subassembly ② into the cable until the insulator rests against the dielectric and the cable conductor is visible through the contact inspection hole.
- 2.2 Crimp the contact with the LEMO crimping tool using the square hole (see "Tooling" on page 37). Gently pull the cable in order to check the crimping.
- 2.3 Slide the crimp ferrule ① onto the shield until it rests against the crimp backnut of the subassembly ②. Crimp with the same LEMO crimping tool using the hexagonal opening. Slide the insulator ③ onto the subassembly ②.
- 2.4 Slide the assembly into the connector shell ④ and screw it onto the subassembly ②. Tighten using the appropriate tool to a torque of 0.25 Nm (see "Tooling" on page 35, 36 and 37). Push the bend relief (if used) onto the crimp ferrule ①.

Note: these terminating instructions apply to the following models:
M4 = FFS, FFV, PCS, PSS, PES

Terminating of plugs and straight sockets with cable crimping (solder contact) M5



1. Cable preparation

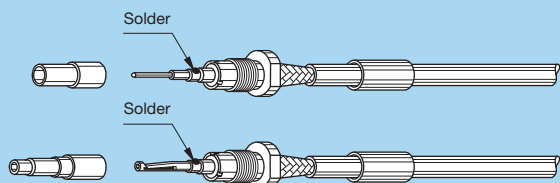
First place the bend relief (if to be used) on the cable. Strip the cable according to dimensions below.

Cable group	M5		
	T	S	L
1-2-3-4-8	5	12	17
6-7	5	12	19

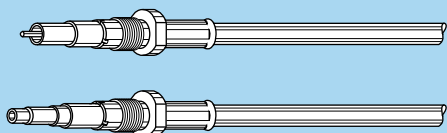
2. Cable terminating

2.1 Place the crimp ferrule ① on the cable. Widen the shield braid. Slide the subassembly ② over the cable until the insulator rests against the dielectric and the cable conductor is visible through the contact solder hole.

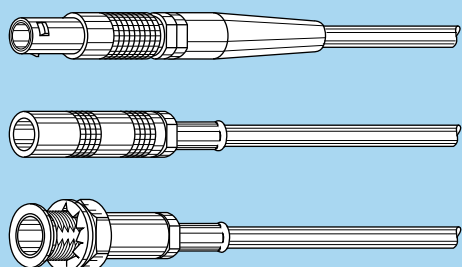
2.2 Solder the conductor through the hole.



2.3 Slide the crimp ferrule ① onto the shield until it rests against the crimp backnut of the subassembly ②. Crimp with the LEMO crimping tool using the hexagonal opening (see "Tooling" on page 37). Slide the insulator ③ onto the subassembly ②.

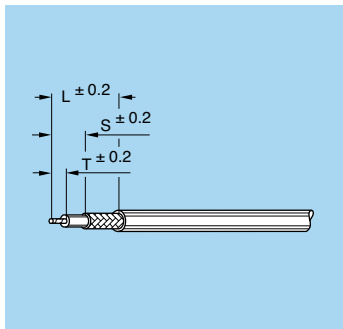
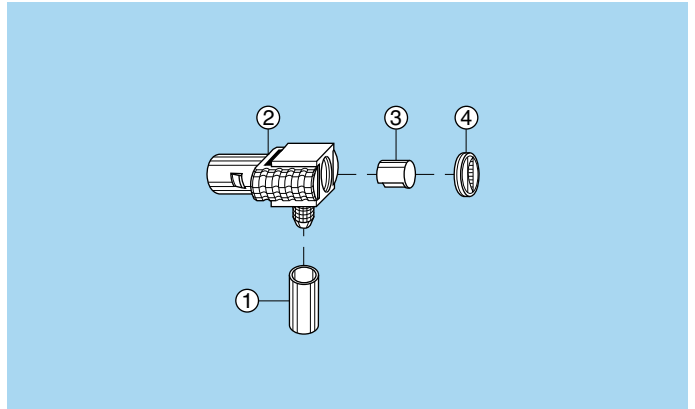
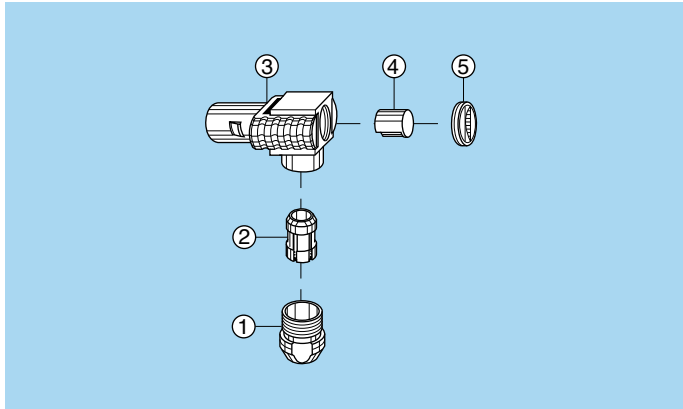


2.4 Slide the assembly into the connector shell ④ and screw it onto the subassembly ②. Tighten using the appropriate tool to a torque of 0.25 Nm (see tooling on pages 35, 36 and 37). Push the bend relief (if used) onto the crimp ferrule.



Note: these terminating instructions apply to the following models:
M5 = FFS, FFV

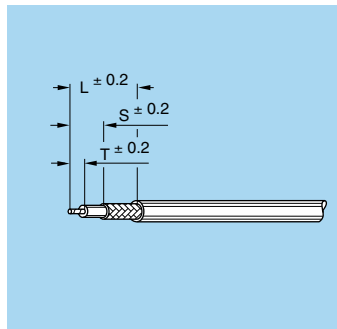
Terminating of elbow plugs (90°) with cable collet (solder contact) **M6** and cable crimp (solder contact) **M7**



1. Cable preparation

First place the bend relief (if to be used) on the cable. Strip the cable according to dimensions below.

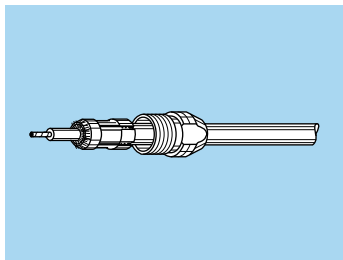
Cable group	M6		
	T	S	L
1-2-3-4-8	1	3.5	6.5



1. Cable preparation

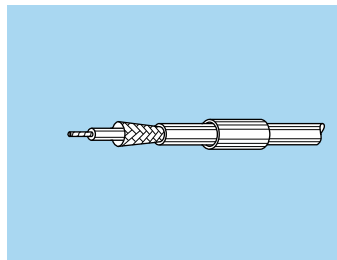
First place the bend relief (if to be used) on the cable. Strip the cable according to dimensions below.

Cable group	M7		
	T	S	L
1-2-3-4-8	1	4.5	9
6-7	3	4.5	11



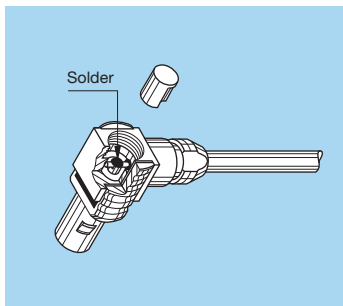
2. Cable terminating

2.1 Place the crimp ferrule ① and collet ② on the cable. Fold back the shield braid onto the conical part of the collet, and trim to outer edge of the collet.

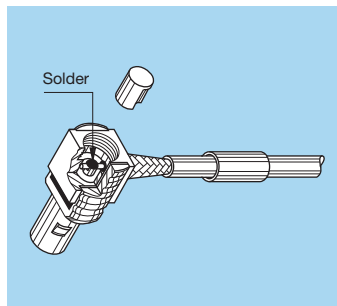


2. Cable terminating

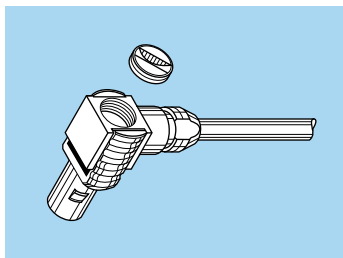
2.1 Place the cable crimp ferrule ① on the cable and widen the braiding.



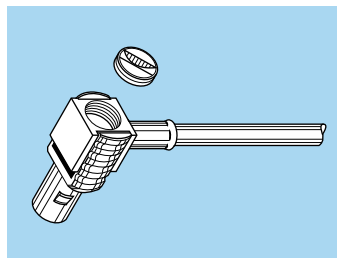
2.2 Slide the assembly into the connector shell ③ and tighten the collet nut ① using the appropriate tool to a torque of 0.25 Nm (see "Tooling" on page 35, 36 and 37). Check that the cable conductor rests in the contact slot, solder the conductor through the hole.



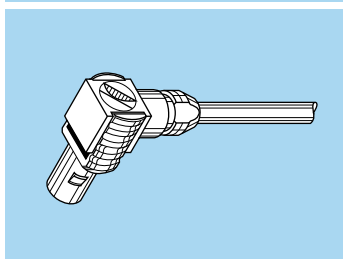
2.2 Slide the cable into the connector shell ②. Check that cable conductor rests in the contact slot, tin solder the conductor through the hole. Slide the crimp ferrule ① over the braiding until it reaches the connector shell ②. Crimp with the LEMO crimp tool using the hexagonal opening (see "Tooling" on page 37).



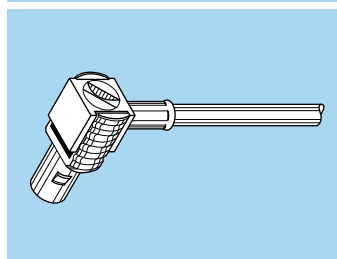
2.3 Place the insulating sleeve ④ over the soldered contact.



2.3 Place the insulating sleeve ③ over the soldered contact.



2.4 Close the access hole with the flat screw ⑤. Push the bend relief (if used) onto the collet nut ①.



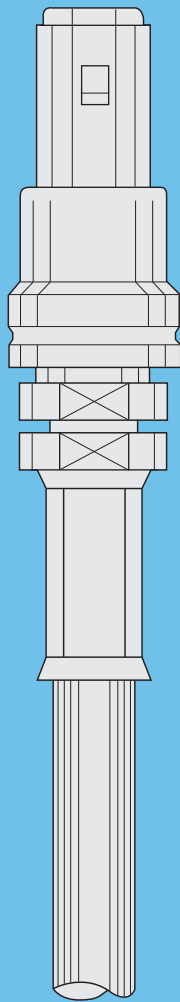
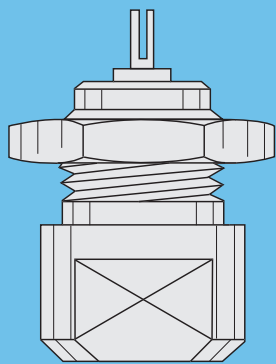
2.4 Close the connector hole with the flat screw ④. Push the bend relief (if used) onto the crimping tube ①.

Note: these terminating instructions apply to the following models:

M6 = FLA

Note: these terminating instructions apply to the following models:

M7 = FLS, FLV



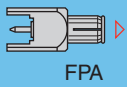
01 SERIES

01 Series

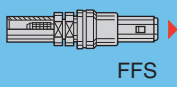
The plugs and sockets of the 01 series are amongst the smallest available 50 Ω coax connectors with a self-latching intermating capability. In spite of their small size and light weight, their technical characteristics remain excellent. Available in a wide range of housing configurations, they are especially useful when connecting onto printed circuit boards.

Metal housing models (page 46)

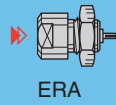
Fixed plug



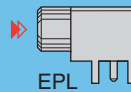
Straight plugs



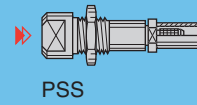
Fixed sockets



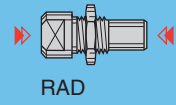
Elbow socket



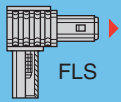
Fixed socket



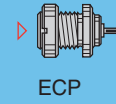
Fixed coupler



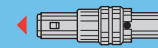
Elbow plugs



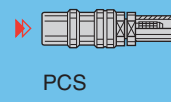
Straight plugs



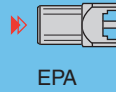
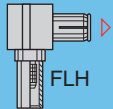
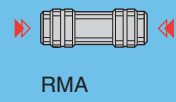
Plug with resistor



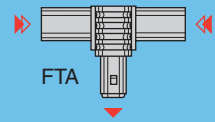
Free socket



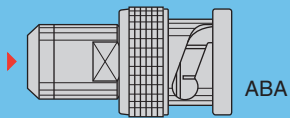
Free coupler



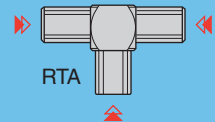
T-plug with two sockets



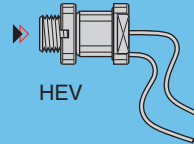
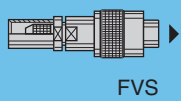
Adaptors (See page 50)



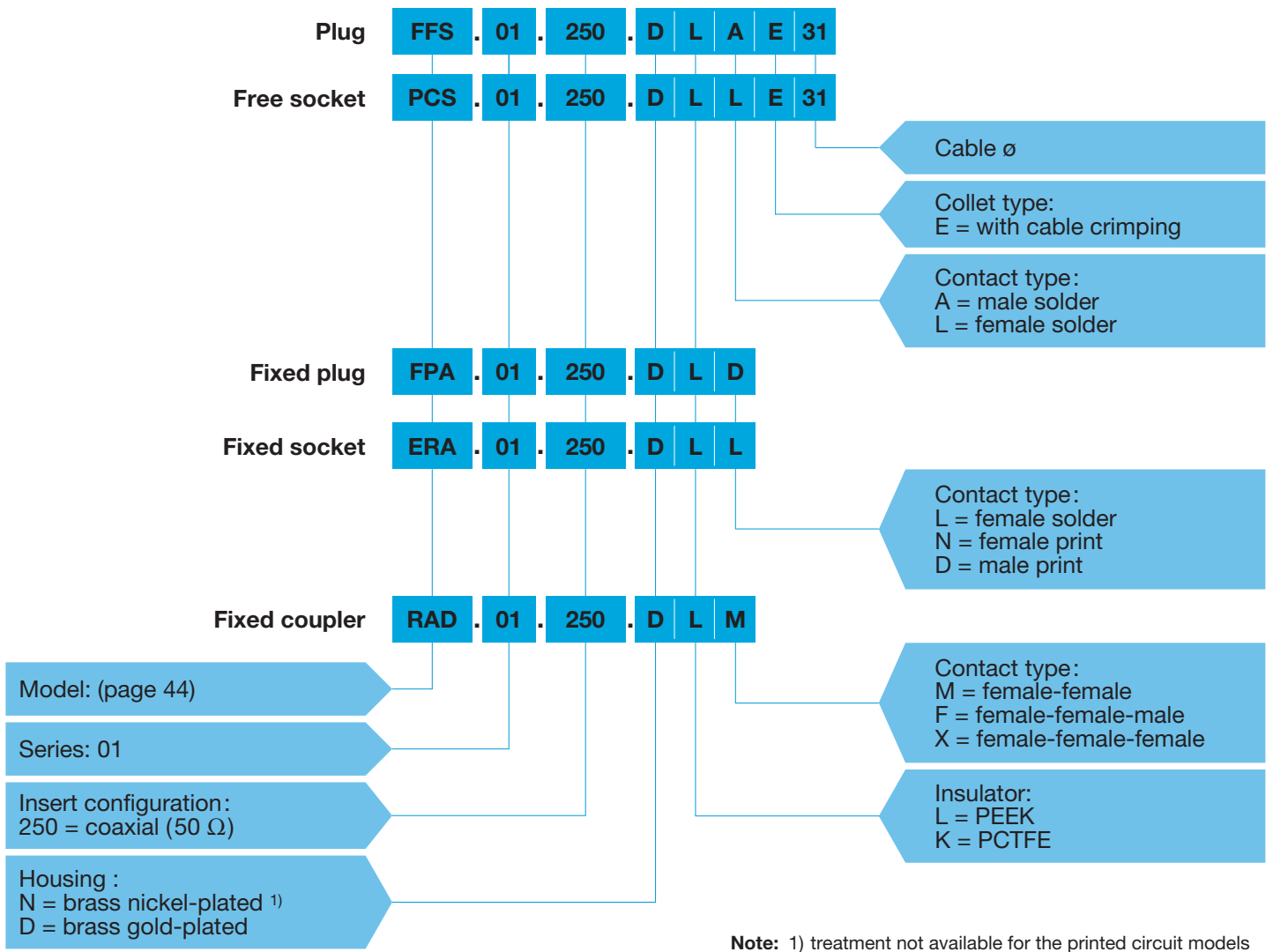
T-coupler



Threaded-latching models (See page 50)



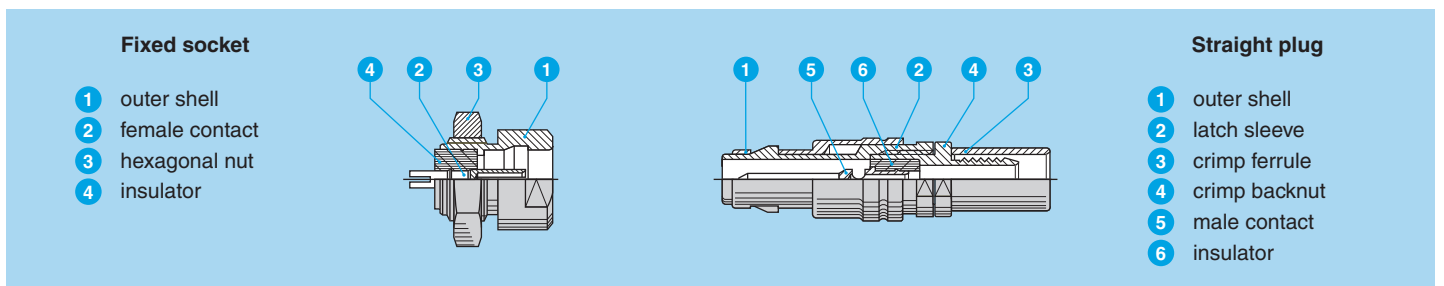
Part Numbering System



Part Number Example

FFS.01.250.DLAE31 = straight plug for cable crimping, 01 series, coaxial type 50 Ω, outer shell is gold-plated brass, PEEK insulator, male solder contact, type E crimp ferrule for cable group 2, 3 or 4.

Part Section Showing Internal Components





Metal housing models

Technical Characteristics

Mechanical and climatical

Characteristics	Value	Standard	Test
Contact retention force	> 60 N	IEC 69512-8	15a
Cable pull off force ¹⁾	> 100 N	IEC 69512-9	17c
Connector pull off force	> 110 N	IEC 69512-8	15f
Endurance	> 1000 cycles	IEC 69512-5	9a
Operating temperature	- 55°C + 230°C		

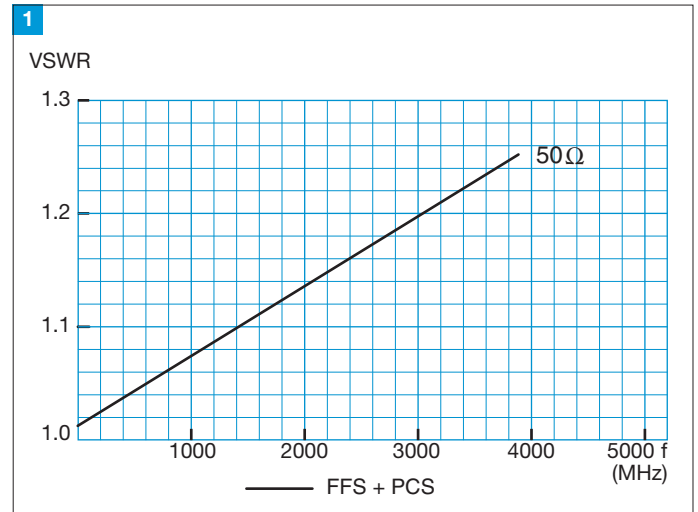
Note: ¹⁾ Depending on cable design
1N = 0.102 kg

Electrical

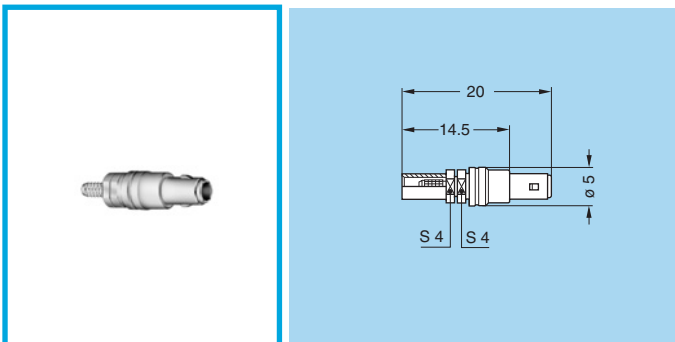
Characteristics	Value	Standard	Method
Impedance	50 Ω	-	
Operating voltage (50 Hz)	0.3 kV rms	-	
Test voltage (50 Hz)	1.0 kV rms	IEC 60512-2	4a
Rated current	4 A	IEC 60512-3	5a
Contact resistance	< 6 m Ω	IEC 60512-2	2a
Screen resistance	< 3.5 m Ω		
Insulating resistance	> 10 ¹² Ω	IEC 60512-2	3a
VSWR	see chart N°1 beside		

Voltage Standing Wave Ratio

The VSWR (Voltage Standing Wave Ratio) is the value representing the power reflected in a connection. In most cases, the working frequency range is where VSWR is ≤ 1.25.



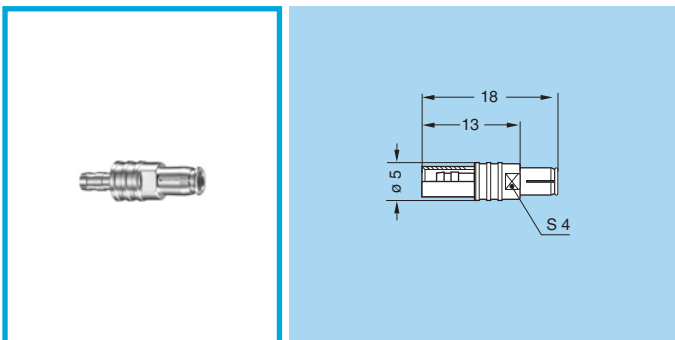
Note: VSWR measured with a RG-174 A/U cable. According to IEC 60169-1-1 standard



FFS Straight plug for cable crimping

Part number	Cable group	Cond. Ø max	Dielectric Ø max	Sheath Ø max
FFS.01.250.DLAE24	1	0.55	0.95	2.35
FFS.01.250.DLAE31	2-3-4	0.55	1.65	3.0

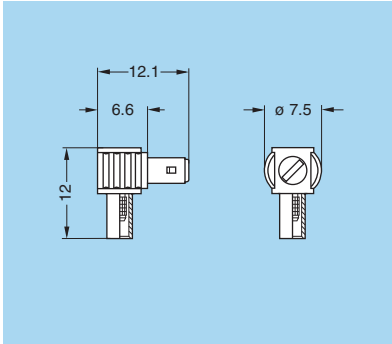
M1 Cable assembly (page 53)



FFH Straight plug, non-latching for cable crimping

Part number	Cable group	Cond. Ø max	Dielectric Ø max	Sheath Ø max
FFH.01.250.DLAE31	2-3-4	0.55	1.65	3.0

M1 Cable assembly (page 53)

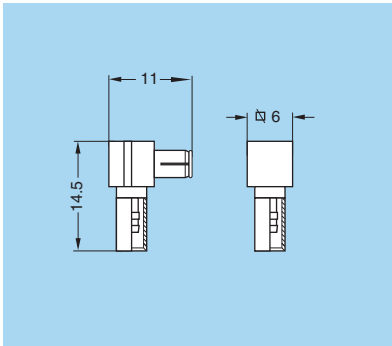


FLS Elbow plug (90°) for cable crimping

Part number	Cable group	Cond. Ø max	Dielectric Ø max	Sheath Ø max
FLS.01.250.●LAE24	1	0.5	0.95	2.35
FLS.01.250.●LAE31	2-3-4	0.5	1.65	3.0

M2 Cable assembly (page 53)

● = material of shell D or N

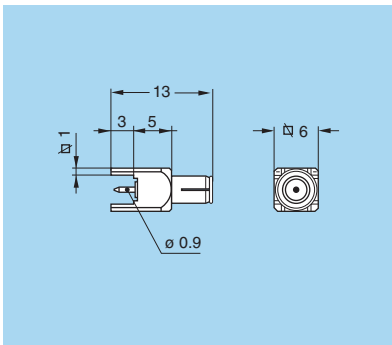


FLH Elbow plug (90°) non-latching, for cable crimping

Part number	Cable group	Cond. Ø maxi	Dielectric Ø maxi	Sheath Ø maxi
FLH.01.250.●LAE31	2-3-4	0.4	1.65	3.0

M3 Cable assembly, crimp contact (page 53)

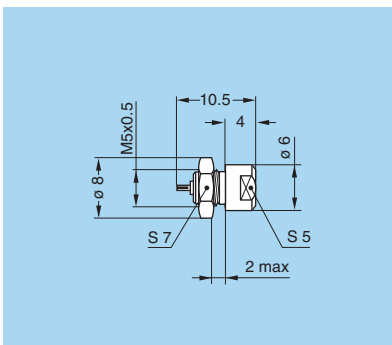
● = material of shell D or N



FPA Straight plug, non-latching, for printed circuit

Part number	Weight (g)
FPA.01.250.DLD	1.5

P4 PCB drilling pattern (page 53)

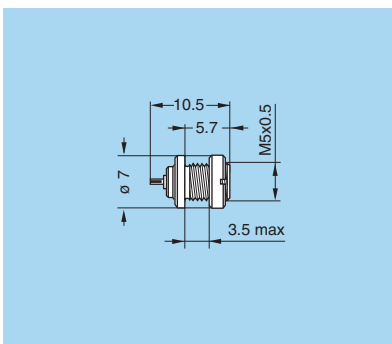


ERA Fixed socket, nut fixing

Part number	Weight (g)
ERA.01.250.●LL	1.3

P1 Panel cut-out (page 53)

● = material of shell D or N

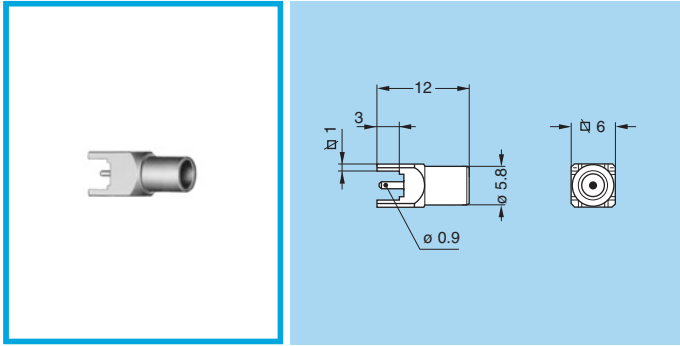


ECP Fixed socket, nut fixing (back panel mounting)

Part number	Weight (g)
ECP.01.250.●LL	1.1

P1 Panel cut-out (page 53)

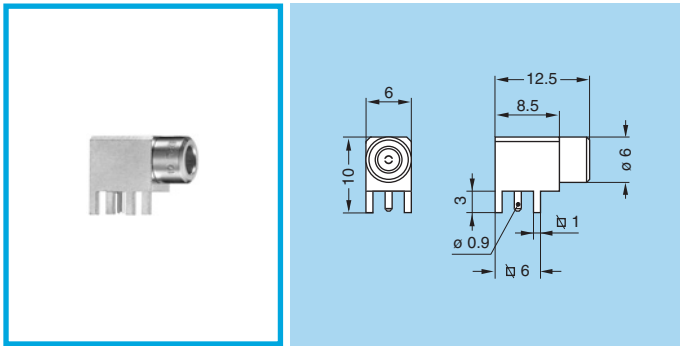
● = material of shell D or N



EPA Straight socket for printed circuit

Part number	Weight (g)
EPA.01.250.DLN	1.6

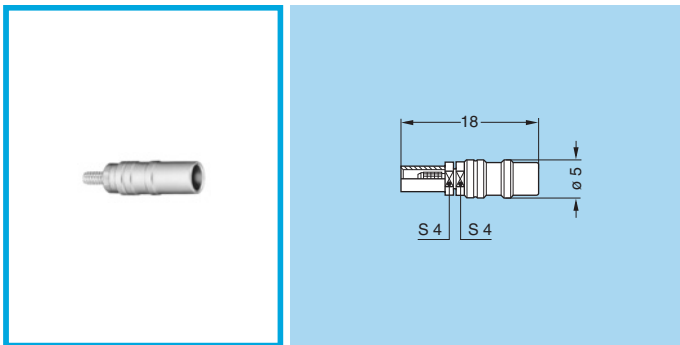
P4 PCB drilling pattern (page 53)



EPL Elbow socket (90°) for printed circuit

Part number	Weight (g)
EPL.01.250.DLN	3.2

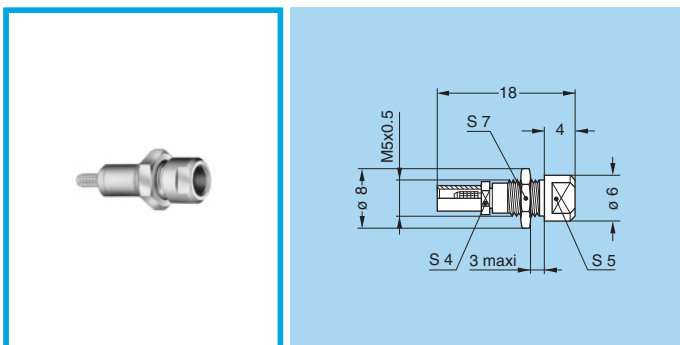
P4 PCB drilling pattern (page 53)



PCS Free socket for cable crimping

Part number	Cable group	Cond. Ø max	Dielectric Ø max	Sheath Ø max
PCS.01.250.DLLE24	1	0.55	0.95	2.35
PCS.01.250.DLLE31	2-3-4	0.55	1.65	3.0

M1 Cable assembly (page 53)

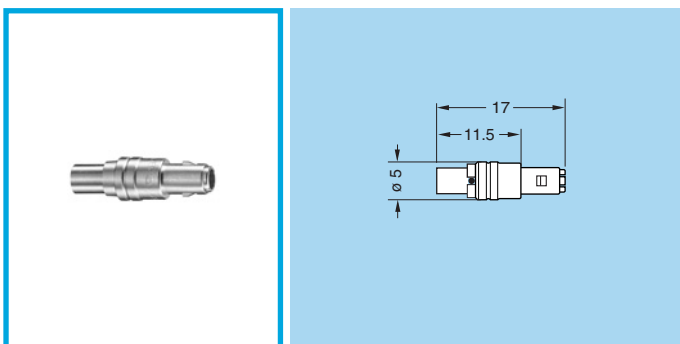


PSS Fixed socket, nut fixing, for cable crimping

Part number	Cable group	Cond. Ø max	Dielectric Ø max	Sheath Ø max
PSS.01.250.DLLE24	1	0.55	0.95	2.35
PSS.01.250.DLLE31	2-3-4	0.55	1.65	3.0

M1 Cable assembly (page 53)

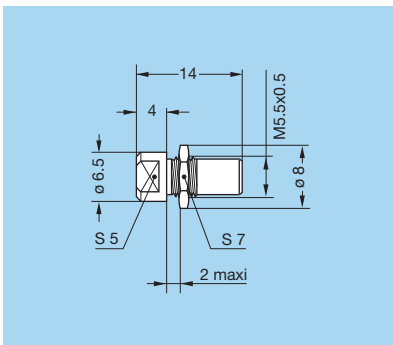
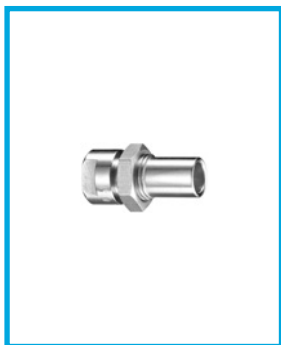
P1 Panel cut-out (page 53)



FRT Straight plug with resistor

Part number	Resistor	Weight (g)
FRT.01.250.DLA50	50 Ω 0.6W	1.0

Note: Non standard, on request only

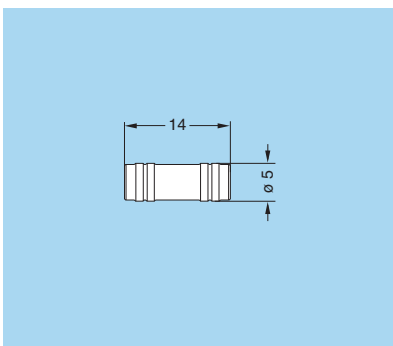
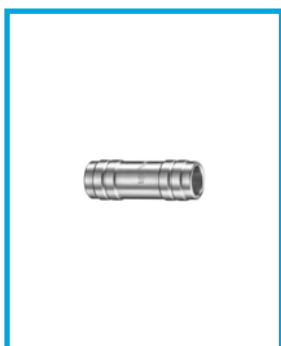


RAD Fixed coupler, nut fixing

Part number	Weight (g)
RAD.01.250.DLM	1.8

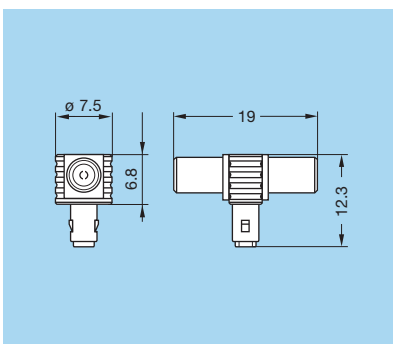
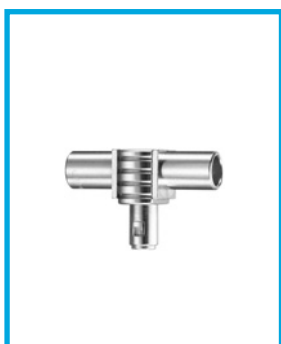
P2 Panel cut-out (page 53)

Note: Non standard, on request only



RMA Free coupler

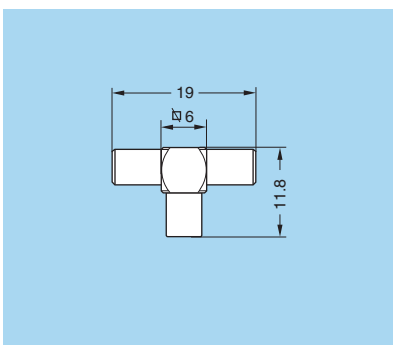
Part number	Weight (g)
RMA.01.250.DLM	1.1



FTA T-plug with two sockets in line

Part number	Weight (g)
FTA.01.250.DLF	2.6

Note: Non standard, on request only

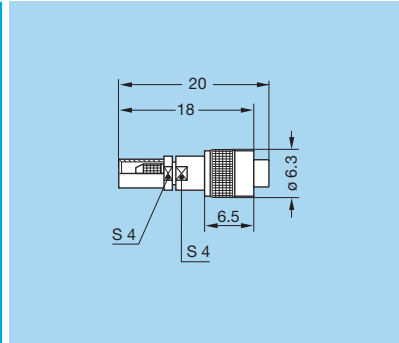


RTA T-coupler with three sockets

Part number	Weight (g)
RTA.01.250.DLX	2.5



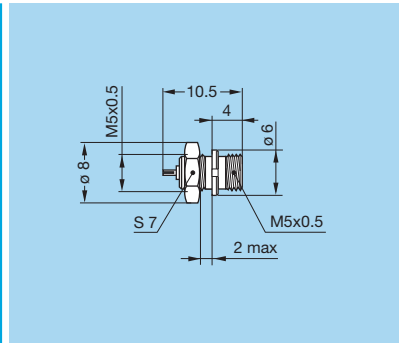
Threaded-latching models



FVS Straight plug, threaded latching for cable crimping

Part number	Cable group	Cond. Ø max	Dielectric Ø max	Sheath Ø max
FVS.01.250.NKAE31	2-3-4	0.55	1.65	3.0

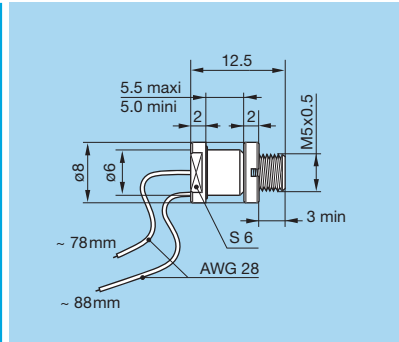
M1 Cable assembly (page 53)



EVP Fixed socket, nut fixing for threaded latching plug

Part number	Weight (g)
EVP.01.250.NKL	1.2

P1 Panel cut-out (page 53)



HEV Fixed socket, round nut fixing for threaded latching plug, watertight (back panel mounting)

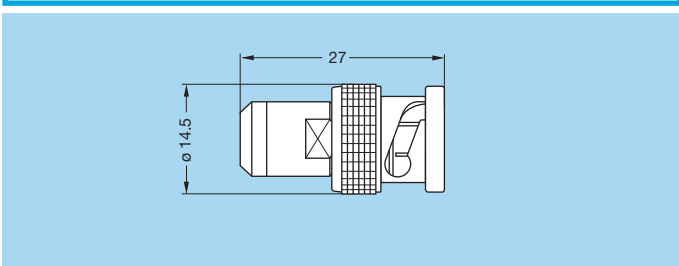
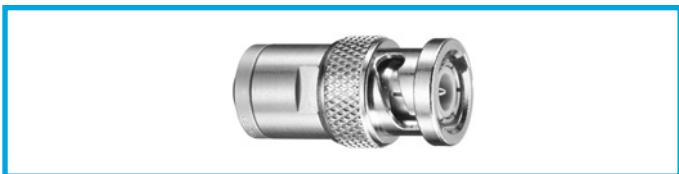
Part number	Weight (g)
HEV.01.250.NKL	2.3

P3 Panel cut-out (page 53)

Note: this model is fitted with 2 wires AWG28 soldered before potting



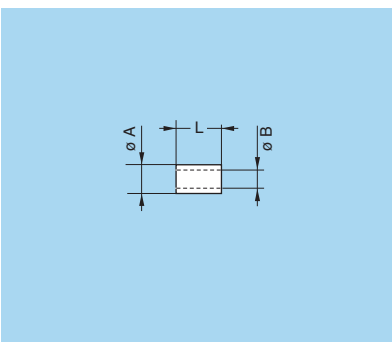
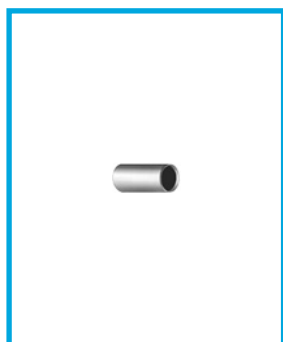
Adaptors



ABA Adaptor from LEMO socket to BNC plug

Part number	Weight (g)
ABA.01.250.NLL	17.5

Spare parts

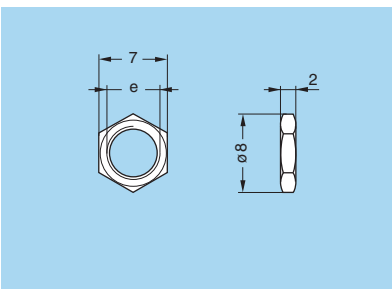


FFS Crimp ferrule

Part number	Cable group	Dim.		
		ØA	ØB	L
FFS.01.160.DA	1	3.1	2.4	6
FFS.01.161.DA	2-3-4	3.8	3.05	6
FFH.01.161.D• ¹⁾	2-3-4	3.8	3.1	7

Note: ¹⁾ for models FFH and FLH
Sockets and plugs to be crimped are always supplied with a crimp ferrule. To order this accessory separately, use the above part numbers.

- Material: Copper (UNS C 18700) nickel (3µm) + gold plated (0.5µm)

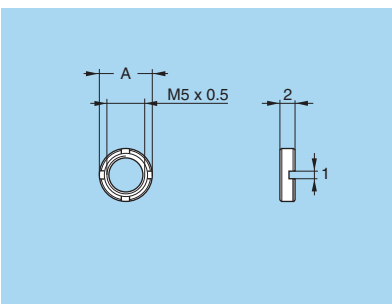


GEA Hexagonal nut

Part number	e (mm)	Models	Weight (g)
GEA.01.240.LN	M5x0.5	ERA, EVP, PSS	0.39
GEA.01.241.LN	M5.5x0.5	RAD	0.31

Note: to order this accessory separately, use the above part number.

- Material: Brass (UNS C 38500) nickel-plated (3 µm)



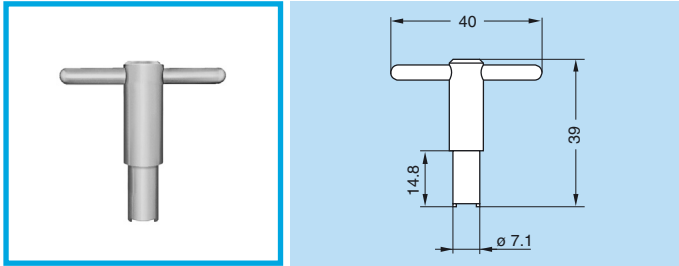
GEB Round nut

Part number	A (mm)	Models	Slot nb.	Weight (g)
GEB.01.240.LN	Ø 7	ECP	2	0.30
GEB.01.244.LN	Ø 8	HEV	4	0.50

Note: to order this accessory separately, use the above part number.

- Material: Brass (UNS C 38500) nickel-plated (3 µm)

Tooling



DCB Spanner for round nut (for ECP and HEV model)

Part number	Part number of the nut
DCB.91.097.0TN	GEB.01.240.LN / GEB.01.244.LN

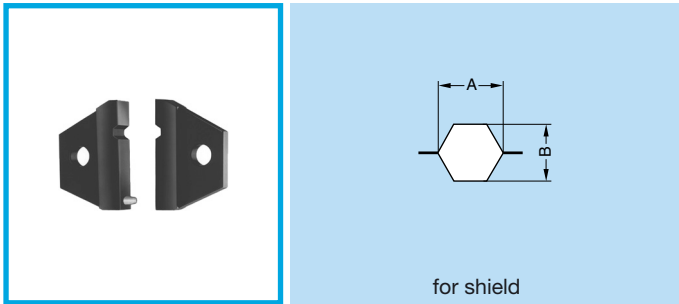
- Material: Blackened steel



DPE Crimping tool with die

Part number	Cable group	Crimp collet ref.
DPE.99.000.00	Crimping tool with no die	
DPE.99.003.1K ¹⁾	1	E24
DPE.99.003.8K ²⁾	2-3-4	E31

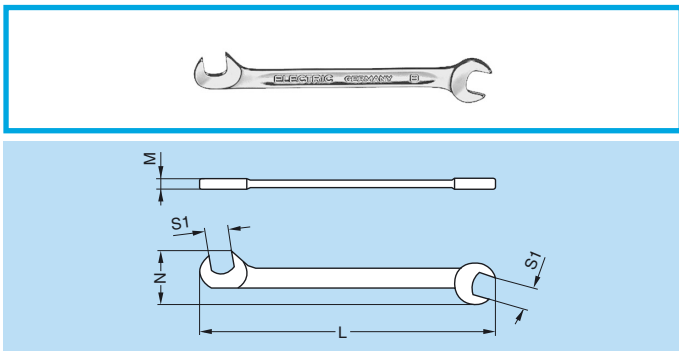
- Note:** 1) Hex cavity of DPE.99.123.1K can also be used
2) Hex cavity of DPE.99.123.8K can also be used



DPN Dies

Part number	Cable group	Die dimension For shield	
		A	B
DPN.99.003.1K	1	3.10	2.70
DPN.99.003.8K	2-3-4	3.80	3.30

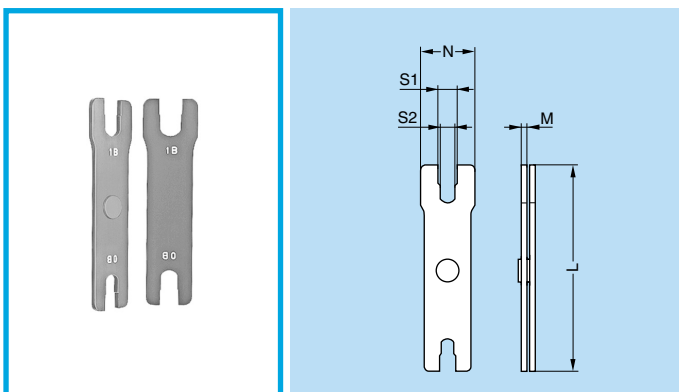
- Dies material: Blackened steel



DCP Flat spanner

Part number	Dimensions (mm)			
	L	M	N	S1
DCP.99.040.TC	70	0.95	10.5	4.0
DCP.99.045.TC	70	2.00	10.5	4.5
DCP.99.050.TC	78	2.00	12.6	5.0
DCP.99.055.TC	78	2.00	12.6	5.5
DCP.99.060.TC	78	2.00	12.6	6.0

- Material: Chrome-plated steel



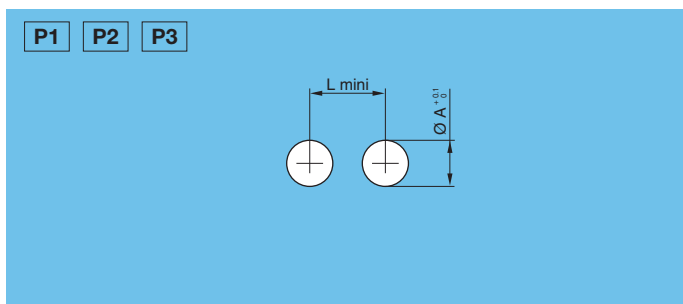
DCP Set of flat spanners

Part number	Dimensions				
	L	M	N	S1	S2
DCP.91.001.TN	95	2.5	21	8.1	7.1

- Material: Blackened steel

Panel cut-outs

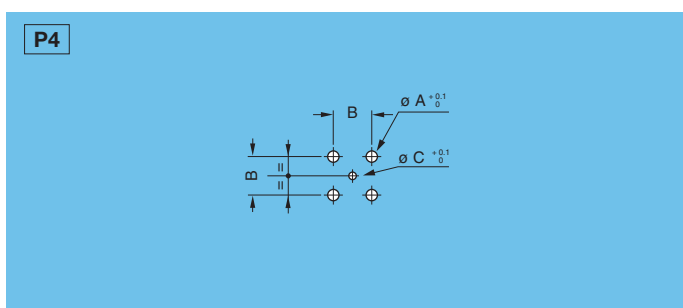
Panel cut-out



Cut-out	Model	Dimensions	
		A	L
P1	ERA-ECP-EVP-PSS	5.1	9.5
P2	RAD	5.6	10.0
P3	HEV	6.1	10.0

Recommended mounting nut torque: 1.5 Nm.

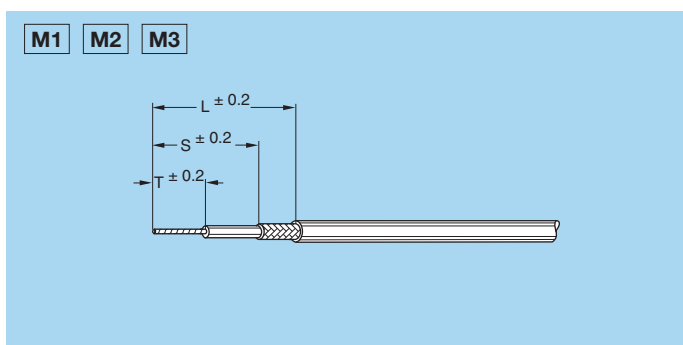
PCB drilling pattern



Drill	Model	Dimensions		
		A	B	C
P4	EPA, FPA, EPL	1.5	5.08	1.0

Cable assembly

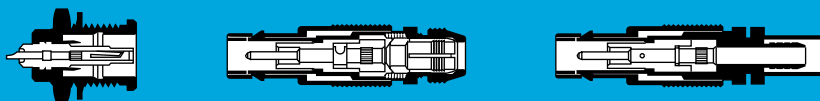
Terminating of plugs and straight sockets with cable crimping (solder contact) M•



The cable assembly of the 01.250 requires specific stripping dimensions. See below. However the procedure is similar to the 00.250 series. See pages 41 and 42.

Cable assembly	Model	T	S	L	Instruction of the 00 series to use as a reference
M1	FFH-FFS-FVS PCS-PSS	3.5	6	10	M5 (page 41)
M2	FLS	1.2	4	8.5	M7 (page 42)
M3	FLM	1.2	4	10	M7 (page 42)

Technical Characteristics



Outer Shell

Brass

LEMO series 00 & 01 connectors have a brass outer shell as standard, and this is suitable for most general purpose applications, including civilian and military.

The brass outer shells have a nickel-plated surface which ensures very good protection against most environments. Alternative protective coatings available are:

- Nickel-chrome offering higher protection against salt air and most corrosive agents
- Nickel-gold
- Nickel-black chrome. After the black chrome treatment, the part is coated with a protective film.

The shell surface is protected by anodizing which is available in six colors: blue, yellow, black, red, green, and natural.

Plastic Materials

A PEEK outer shell is available which offers excellent insulating properties and is mostly used in the medical industry. This material is suitable for gas or steam sterilization.

Other Metallic Components

In general, other components are manufactured from brass. However, bronze is used where good elasticity is required (for example: earthing crown).

These parts are nickel or nickel-gold plated depending on the utilization.

Materials and Treatment

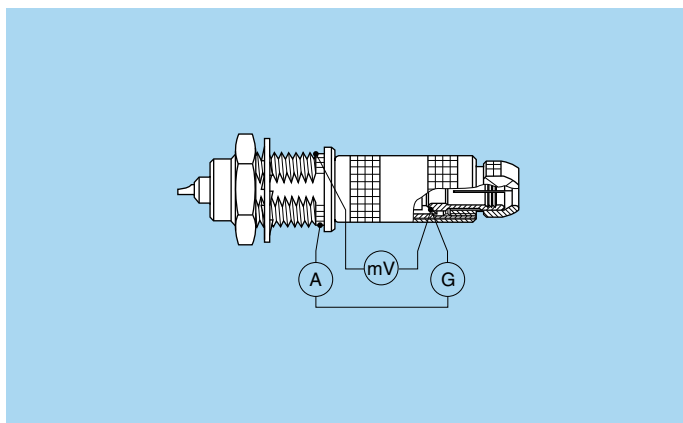
Component	Material (Standard)	Surface Treatment (µm)										
		Nickel		Chrome			Gold			Black Chrome		
		Cu	Ni	Cu	Ni	Cr	Cu	Ni	Au	Cu	Ni	Cr
Outer shell, collet nut, conical nut or notched nut	Brass (UNS C 38500)	0.5	3	0.5	3	0.3	0.5	3	0.5	-	1	2
	Aluminium alloy	anodized										
	PEEK	beige colored										
Earthing crown	Cu-Be (UNS C 17300)	0.5	3	-	-	-	0.5	3	1.5	-	-	-
Latch sleeve	Special Brass	0.5	3	-	-	-	0.5	3	1.5	-	-	-
Crimp ferrule	Copper (UNS C 18700)	0.5	3	-	-	-	0.5	3	1.5	-	-	-
Locking washer	Bronze (UNS C 52100)	0.5	3	-	-	-	0.5	3	0.5	-	-	-
Hexagonal nut	Brass (UNS C 38500)	0.5	3	-	-	-	0.5	3	0.5	-	-	-
Other metallic components	Brass (UNS C 38500)	0.5	3	-	-	-	0.5	3	0.5	-	-	-
O-ring and gaskets	Silicone or FPM	without treatment										
Sealing resin	Epoxy	-										

Notes: The surface treatment standards are as follows:

- nickel FS QQ-N-290A, or MIL DTL 32119
- chrome FS QQ-C-320B
- gold ISO 27874
- black chrome MIL-C-14538C with a minimum of 10 µm lacquer protection

Electrical Characteristics

Shell electrical continuity (measured according to IEC 60512-2 test 2f)



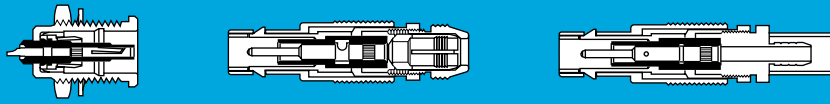
R₁ Values with earthing crown and latch sleeve or inner-sleeve nickel plated.

R₂ Values with gold-plated earthing crown and nickel plated latch sleeve or inner-sleeve.

R₃ Values with earthing crown and gold-plated latch sleeve or inner-sleeve.

Serie 00			Serie 01		
R ₁ (mΩ)	R ₂ (mΩ)	R ₃ (mΩ)	R ₁ (mΩ)	R ₂ (mΩ)	R ₃ (mΩ)
3.5	2.8	2.0	N.A	2.3	1.5

Testing current: 1A
 A = Ammeter
 mV = Millivoltmeter
 G = Generator



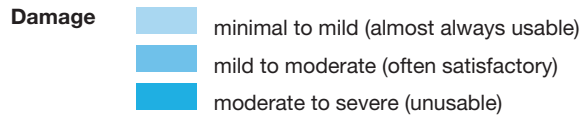
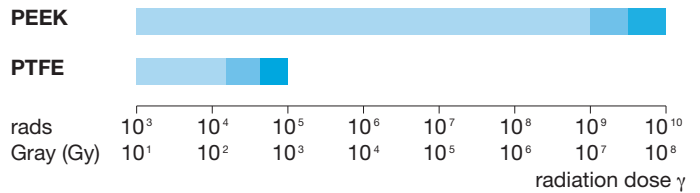
Insulator

Technical Description

LEMO uses virgin quality PTFE for the insulator material of coaxial connectors, which guarantees excellent insulating properties.

LEMO also proposes PEEK (Polyether Etherketone). Its higher mechanical strength and excellent radiation resistance make it ideal for most applications.

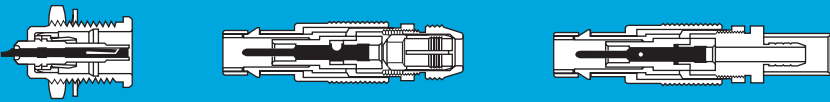
Radiation resistance



Technical Characteristics

Property	Test method	Unit	PEEK	PTFE
Dielectric strength	ASTM D 149 / IEC 60243	kV/mm	19 - 25	17.2 - 24
Volume resistivity at 50% HR and 23°C	ASTM D 257 / IEC 60093	$\Omega \cdot \text{cm}$	10^{16}	10^{18}
Surface resistivity	ASTM D 257 / IEC 60093	Ω	10^{15}	10^{17}
Thermal conductivity	ASTM C 177	W/K · m	0.25	0.23
Comparative tracking index	IEC 60112	V	CTI 150	CTI 500
Dielectric constant (10 ⁶ Hz)	ASTM D 150 / IEC 60250	-	3.2 - 3.5	2 - 2.1
Dissipation factor (10 ⁶ Hz)	ASTM D 150 / IEC 60250	-	< 0.005	< 0.0003
Maximum continuous service temperature	-	°C	250	260
Minimum continuous service temperature	-	°C	-53	-200
Water absorption in 24h at 23°C	ASTM D 570 / ISO R624	%	< 0.3	< 0.01
Radiation resistance	-	Gy	10^7	$2 \cdot 10^2$
Flammability rating	UL 94 / UL 94	-	V 0	V 0

Note: the technical data contained in this chapter gives a general information about plastic materials used by LEMO as electrical insulator materials. LEMO reserves the right to propose new material which would have higher technical characteristics and to withdraw any material contained in this publication or others from LEMO and its subsidiary companies. LEMO only uses granulated, powdered plastic materials or bars from specialized suppliers. LEMO is not responsible, in any case, for these materials.

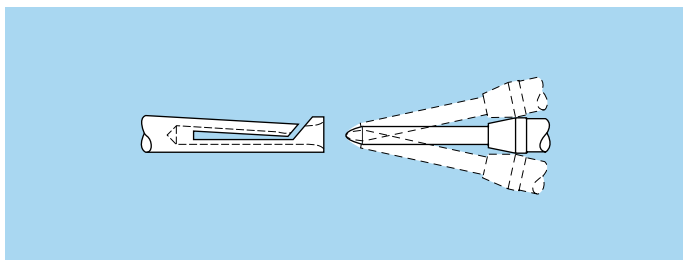


Electrical Contact

Technical Description

The secure, reliable electromechanical connection achieved with LEMO female contacts is mainly due to two important design features:

1. *Prod proof entry* which ensures perfect concentric mating even with well used and/or carelessly handled connectors.
2. *The pressure spring* that maintains a constant, even force on the male contact when mated. The leading edge of the spring is chamfered to slide smoothly on the male contact, preserving the gold-plated surface treatment and preventing undue wear.



Contact Material

LEMO female electrical contacts are made from bronze (UNS C 54400). Bronze is chosen because of its high modulus of elasticity, its excellent electrical conductivity and a high mechanical strength.

LEMO male solder and print contacts are made from brass (UNS C 38500). Male crimp contacts are made from brass (UNS C 34500) which is ideal for crimping onto the electrical conductor.

Conductor retention method

Both male and female contacts are available in crimp, solder or print versions.

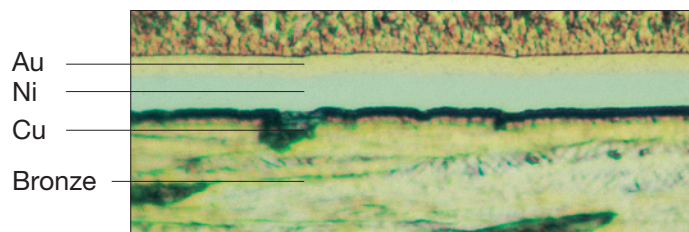
Insulation resistance between the contacts and contact/shell

(measured according to IEC 60512-2 test 3a)

Insulating material	Multipole	Unipole
	PEEK	PTFE
new	$> 10^{12} \Omega$	$> 10^{12} \Omega$
after humidity test ¹⁾	$> 10^{10} \Omega$	$> 10^{10} \Omega$

Note: ¹⁾ 21 days at 95% RH according to IEC 60068-2-3.

Materials and Treatments



Notes: the standard surface treatments are as follows:

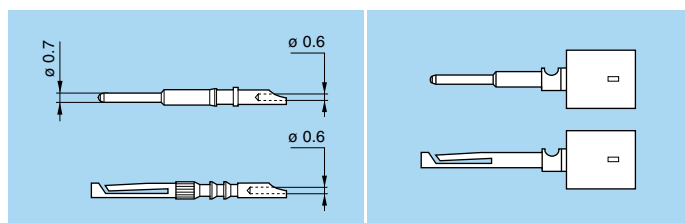
- Nickel FS QQ-N-290A or MIL DTL 32119
- Gold ISO 27874

Type	Material (Standard)	Surface treatment (µm)		
		Cu	Ni	Au ¹⁾
Male solder	Brass (UNS C 38500)	0.5	3	1.0
Male crimp	Brass (UNS C 34500)			
Male print	Brass (UNS C 38500)			
Female solder	Bronze (UNS C 54400)	0.5	3	1.5
Female crimp				
Female print				

¹⁾ minimum value

Solder Contacts

The conductor bucket of these contacts is machined at an angle to form a cup into which the solder can flow. Design is compatible with the use of lead-free solder.



Features of the LEMO crimp contacts:

- Quick and simple assembly
- Insulator is not heated during contact to conductor assembly
- High temperature applications possible
- Increased conductor retention force

Print contacts

Print contacts are available in certain connectors versions, mostly for the straight or elbow sockets models. Connection is made on flexible or rigid printed circuits by soldering

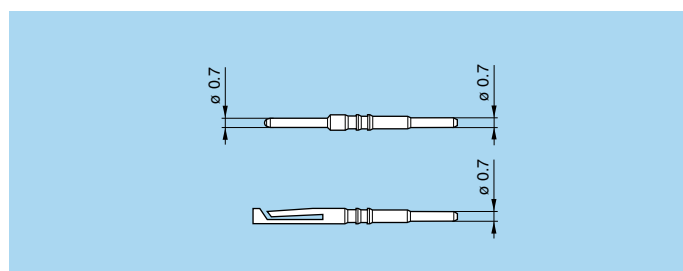
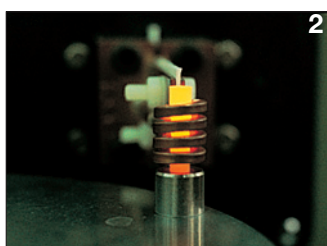
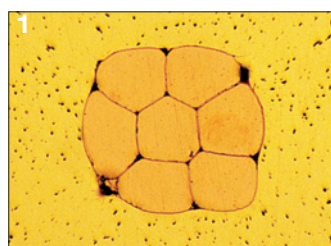
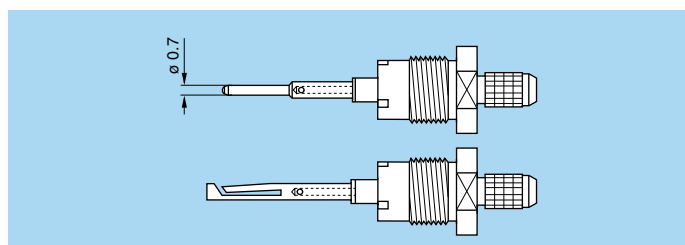
Crimp Contacts

The square form crimp method is used (MIL-C-22520F, type 2) (photo 1).

The crimp method requires a controlled compression to obtain a symmetrical deformation of the conductor strand and of the contact material. The radial hole in the side of the contact enables correct positioning of the conductor within the contact to be verified. A good crimping is characterized by a small conductor section reduction and by the quite closed free spaces.

The LEMO crimp contacts are factory annealed to relieve internal stresses, and reduce the risk of the material work hardening during the crimping process.

During this process, an induction heating machine designed by LEMO's Research and Development Department is used (photo 2).



Contact Resistance in Relation to Numbers of Mating Cycles (measured according to IEC 605/2-2 test 2a)

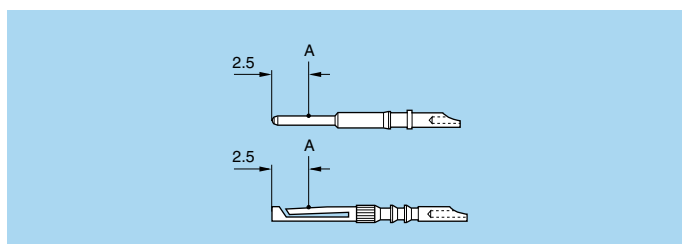
Contact resistance (mΩ)		
1000 cycles	3000 cycles	5000 cycles
5.6	5.7	6.1

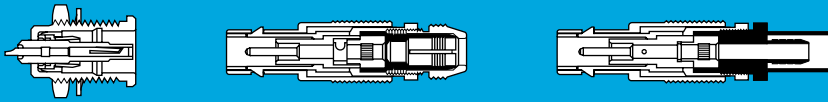
Maximum values measured after the mating cycles and the salt spray test according to IEC 60512-6 test 11f.

Thickness comparison between the outside and the inside of female contacts

male (µm)	Gold thickness	
	outside (µm)	inside (%)
1.0	1.5	70

A = inspection point





Cable Fixing

Cable fixing onto LEMO connectors is determined by the connector model. This is achieved either with a cable collet system or with hexagonal crimping (MIL-C-22520F, type 2).

The collet system cable fixing is made without any special tooling. The crimping method guarantees a good electrical continuity of the shield which improves greatly the shielding efficiency of the cable/connector link.

Material and Treatment

Component	Material (Standard)	Surface Treatment (µm)	
		Cu	Ni
Earthing sleeve	Brass (UNS C 38500)	0.5	3
Collet	Brass (UNS C 38500)	0.5	3
Crimp ferrule	Copper (UNS C 18700)	0.5	3
Collet nut	Brass (UNS C 38500)	0.5	3

Note: collet nut tightening torque: maximum 0.25 Nm (1N = 0.102 kg)

Technical tables

VSWR effect on transmitted power

VSWR	VSWR (dB)	Return loss (dB)	Transmiss. loss (dB)	Reflected voltage coefficient	Transmit. power (%)	Reflected power (%)
1.00	0		0.000	0.00	100.0	0.0
1.01	0.1	46.1	0.000	0.00	100.0	0.0
1.02	0.2	40.1	0.000	0.01	100.0	0.0
1.03	0.3	36.6	0.001	0.01	100.0	0.0
1.04	0.3	34.2	0.003	0.03	100.0	0.0
1.05	0.4	32.3	0.003	0.02	99.9	0.1
1.06	0.5	30.7	0.004	0.03	99.9	0.1
1.07	0.6	29.4	0.005	0.03	99.9	0.1
1.08	0.7	28.3	0.006	0.04	99.9	0.1
1.09	0.7	27.3	0.008	0.04	99.8	0.2
1.10	0.8	26.4	0.010	0.05	99.8	0.2
1.11	0.9	25.7	0.012	0.05	99.7	0.3
1.12	1.0	24.9	0.014	0.06	99.7	0.3

VSWR	VSWR (dB)	Return loss (dB)	Transmiss. loss (dB)	Reflected voltage coefficient	Transmit. power (%)	Reflected power (%)
1.13	1.1	24.3	0.016	0.06	99.6	0.4
1.14	1.1	23.7	0.019	0.07	99.6	0.4
1.15	1.2	23.1	0.021	0.07	99.5	0.5
1.16	1.3	22.6	0.024	0.07	99.5	0.5
1.17	1.4	22.1	0.027	0.08	99.4	0.6
1.18	1.4	21.7	0.030	0.08	99.3	0.7
1.19	1.5	21.2	0.033	0.09	99.2	0.8
1.20	1.6	20.8	0.036	0.09	99.2	0.8
1.21	1.7	20.4	0.039	0.10	99.1	0.9
1.22	1.7	20.1	0.043	0.10	99.0	1.0
1.23	1.8	19.7	0.046	0.10	98.9	1.1
1.24	1.9	19.4	0.050	0.11	98.9	1.1
1.25	1.9	19.1	0.054	0.11	98.8	1.2

Product safety notice

PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVANT NATIONAL AND INTERNATIONAL SAFETY REGULATIONS FOR YOUR APPLICATION. IMPROPER HANDLING, CABLE ASSEMBLY, OR WRONG USE OF CONNECTORS CAN RESULT IN HAZARDOUS SITUATIONS.

1. SHOCK AND FIRE HAZARD

Incorrect wiring, the use of damaged components, presence of foreign objects (such as metal debris), and / or residue (such as cleaning fluids), can result in short circuits, overheating, and / or risk of electric shock.

Mated components should never be disconnected while live as this may result in an exposed electric arc and local overheating, resulting in possible damage to components.

2. HANDLING

Connectors and their components should be visually inspected for damage prior to installation and assembly. Suspect components should be rejected or returned to the factory for verification.

Connector assembly and installation should only be carried out by properly trained personnel. Proper tools must be used during installation and / or assembly in order to obtain safe and reliable performance.

3. USE

Connectors with exposed contacts should never be live (or on the current supply side of a circuit). Under general conditions voltages above 30 VAC and 42 VDC are considered hazardous and proper measures should be taken to eliminate all risk of transmission of such voltages to any exposed metal part of the connector.

4. TEST AND OPERATING VOLTAGES

The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage; reference values are indicated in the catalog however these may be influenced by PC board design and / or wiring harnesses.

The test voltage indicated in the catalog is 75% of the mean breakdown voltage; the test is applied at 500 V/s and the test duration is 1 minute.

5. CE MARKING

CE Marking is applied to a complete product or device, and implies that the device complies with one or several European safety directives.

CE Marking can not be applied to electromechanical components such as connectors.

6. PRODUCT IMPROVEMENTS

The LEMO Group reserves the right to modify and improve to our products or specifications without providing prior notification.

LEMO complete product range

	B	S	K	E	F	00	01	0A	3T	4A	4M	3K.93C	1D	Y	05	5G	2G	2C	L	H	M	R	N	03	V	W	F	P	D	K/S	01	DIN	
Unipole																																	
Multipole					•	•																											
Coaxial 50 Ω																																	
Coaxial 75 Ω																																	
Multi Coaxial																																	
Mixed Coax + LV																																	
Triaxial 50 Ω																																	
Triaxial 75 Ω																																	
Mixed Triax + LV																																	
Quadrax																																	
High Voltage																																	
Multi High Voltage																																	
Mixed HV + LV																																	
Fibre Optic																																	
Multi Fibre Optic																																	
Mixed FO + LV																																	
Thermocouple																																	
Fluidic																																	
Multi Fluidic																																	
Mixed Fluidic + LV																																	

Most frequently used in darker colour

• included in this catalogue

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0A Series	3T Series	4A Series	4M Series Keyed	3K.93C Series Keyed	1D Series	Y Series
05 Series	5G Series Keyed	2G Series Keyed	2C Series	L Series Keyed	H Series	M Series Keyed
R Series Keyed	N Series Keyed	03 Series Keyed	V Series	W Series Keyed	Cable assembly	K/S Series Keyed
REDEL F Series	P REDEL Series Keyed	D REDEL Series	01 Series Keyed	VAA Series	SAA Series	TAA Series

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