











### Introduction

This catalogue gives the complete description of LEMO M series connectors. M series connectors are lightweight triplestart ratchet coupling type connectors designed for avionics, aerospace, military, security, motorsport and heavy duty

The LEMO manufacturing programme has been extended to almost 40 series divided into 7 product families with specific mating and environmental characteristics. Each series includes a wide variety of plug, socket and coupler models, available in contact configurations adapted to all round cables. Watertight models are also available. Since LEMO connectors are perfectly screened and designed to guarantee very low resistance to shell electrical continuity, they are particularly adapted to applications where electromagnetic compatibility (EMC) is important.

### **Technical Characteristics**

### **Materials and Treatments**

		Shell			Surfac	e trea	atmer	nt (µm)	
Component	ma	terial c	ode	Material (Standard)	chrome	nic	kel	gold	Notes
	I	Х	С		CHIOTIC	I	Х	gold	
Outer shall				Brass (UNS C 38500)	0.3	_	_	_	
Outer shell				Aluminium alloy (AA 6262A or AA 6023)	-	14	5	-	1)
Conical nut				Brass (UNS C 38500)	0.3	-	_	_	
Conical nut				Aluminium alloy (AA 6262A or AA 6023)	_	14	5	_	1)
Earthing crown				Bronze (UNS C 54400) or special brass	_	-	_	1.5	
Causting and				Brass (UNS C 38500)	_	-	3	_	-
Coupling nut				Aluminium alloy (AA 6262A or AA 6023)	_	14	3	-	1)
Ratchet				Special PEEK		-	_		
Lleve genel nut				Brass (UNS C 38500)	_	_	3	_	
Hexagonal nut				Aluminium alloy (AA 6262A or AA 6023)	_	-	5	_	
Male crimp contact				Brass (UNS C 34500)	_	_	_	1.0	_
Female crimp contact				Bronze (UNS C 54400)	_	_	_	1.5	_
Clips				Cu-Be or special steel	with	out t	reatm	ent	
Insulator				PEEK		-	-		
O min m				Silicone		-	_		
O-ring				FPM/FKM (Viton®)		-	-		
Sealing resin				Epoxy (Araldite® or Stycast®)		-	-		
Cable rear seal				Fluorosilicone		-	_		
Spring				Stainless steel		-			

Notes: standards for surface treatment are as follows: chrome-plated SAE AMS 2460; nickel-plated SAE AMS QQ N 290 or MIL DTL 32119; gold-plated ISO 27874. 1) anthracite colour.

### **Environmental performance**

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Characteristics	Value	IEC international	MIL-spec tests
Operating temperature (mated)	-55° C/+200° C (HE• model: -20° C/+80° C)		
Ingress protection index	IP 68 (at 2 m, 15Hr)	IEC 60529	
Fungus	Satisfied - by material analysis		MIL-STD 810F-508.5
Flammability	60 sec. front and back face		EIA-364-104A
Fluid contamination 1)	Fuels, gasoline, hydraulic oils, solvents, de-icing		MIL-STD-810F method 504
Sand and dust 2)	6 hr, 55°C, blowing < 150 μm dust		MIL-STD 810F-510.4
Lightning strike	10 K amps - 6 times		EIA-364-75
Altitude-low temp 3)	-65°C; 40'000 feet and 400 VAC		EIA-364-105A
Salt fog <sup>4)</sup>	Alum. shell (up to 500Hr), Brass shell (1000Hr)	IEC 60512-6 test 11f	EIA-364-26
Thermal shock	5 cycles: -65° C to +150° C	IEC 60512-11-4	EIA-364-32 test condition IV
Altitude immersion	No moisture on contacts		EIA-364-03
Humidity	21 days at 95%	IEC 60068-2	EIA-364-31 method IV

Note: 1) Connectors immersed at both 70°C and 25°C according to specification. Connectors are then inspected, no visual signs of damage seen. Fuels: Kerosene, JP4, (Nato F40) at 70°C +/- 2°C. Gasoline: ASTM 4814. Hydraulic oils: Mineral oil based MIL-H-5606. Solvents: Isopropanol. De-icing fluids: 25% ethylene glycol.

2) No signs of damage, connectors opened and closed without difficulty. Dust or sand was not inside connector.

4) Corrosion resistance. Inspection: salt deposits shall be removed by gentle wash in running water with light brushing using soft brush. Aluminium Shell (material code: X) max: 48 hours, (material code: I) max: 500 hours. Brass shell (material code: C) over 1000 hours.

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<sup>3)</sup> Wired mated connectors = no voltage breakdown, shell to all contacts (connected together) w/400 VAC after 1 hour at 65° C at 40'000 feet altitude.



### **Electrical performance**

Characteristics	Value	IEC international	MIL-spec tests
Insulation resist. (at ambient temp.) 6)	$> 10^{12} \Omega$ , $> 10^{10} \Omega$ (after humidity)	IEC 60512-2 test 3a	EIA-364-21
Dielectric withstanding volt. (sea level)	See table page 22-23-24	IEC 60512-2 test 4a	EIA-364-20
Contact resistance	See table below 7)	IEC 60512-2 test 2a	EIA-364-06
Current rating	See insulator configuration page 22-23-24	IEC 60512-3 test 5a	
Shell to shell conductivity	< 1.5 mΩ	IEC 60512-2-6	EIA-364-83
Shielding effectiveness, low frequency	≥ 80 dB up to 1GHz		EIA-364-66
Shielding effectiveness, high frequency	≥ 70 dB (3GHz), ≥ 58 dB (6GHz), ≥ 40 dB (10GHz)		EIA-364-66

Note: 6) After humidity test: 21 days at 95% RH according to IEC 60068-2. Insulation resistance measured between the contacts and contact/shell.

	Contact resistance 7) IEC 60512-2 test 2a							
0.5	0.7	0.9	1.3	ø A (mm)				
≤ 8.7	≤ 6.1	≤ 4.8	≤ 3.6	mΩ				

Notes: 7) after 5000 mating cycles and the salt spray test according to IEC 60512-6 test 11 f.

### **Mechanical performance**

Characteristics	Value	IEC international	MIL-spec tests
Endurance	3000 cycles	IEC 60512-5 test 9a	EIA-364-09
Gunfire vibration	25 to 2000 Hz, 3 axis (Apache helicopter)		MIL-STD-810F method 519.5
Vibration-Sine 8)	30 g, 3 axis, 12 hr		MIL-STD-202 method 204-G
Vibration-Random	50-2000 Hz, 37.8 g rms-3 axes; 4h amb	IEC 60512-6-4	EIA-364-28 test cond. V letter I
Shock	300 g - 3 msec	IEC 60512-6-3	EIA-364-27 condition D
Acceleration	50 g acceleration		MIL-STD-1344 - 2011-1, A
Contact retention	> 22 N (ø 0.7 mm), > 30 N (ø 0.9 mm)	IEC 60512-8 test 15a	
Torque	See table below		

Note:  $^{8)}$  Amplitude: 30G. Frequency: 10 to 2000 Hz. Time per axis: 4 hours (X, Y, Z). No signal discontinuity above 1  $\mu$ s.

Series	Coupling torque tightning (N.cm)	Coupling torque untightning (N.cm)	Series	Coupling torque tightning (N.cm)	Coupling torque untightning (N.cm)
MM	8	4	TM	26	30
OM	4	5	4M	26	25
1M	10	11	LM	48 <sup>9)</sup>	43
2M	20	14	5M	91 <sup>9)</sup>	54
ЗМ	34	29			

**Note:** 9) Higher contact density = larger torque force.

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### **M Series**

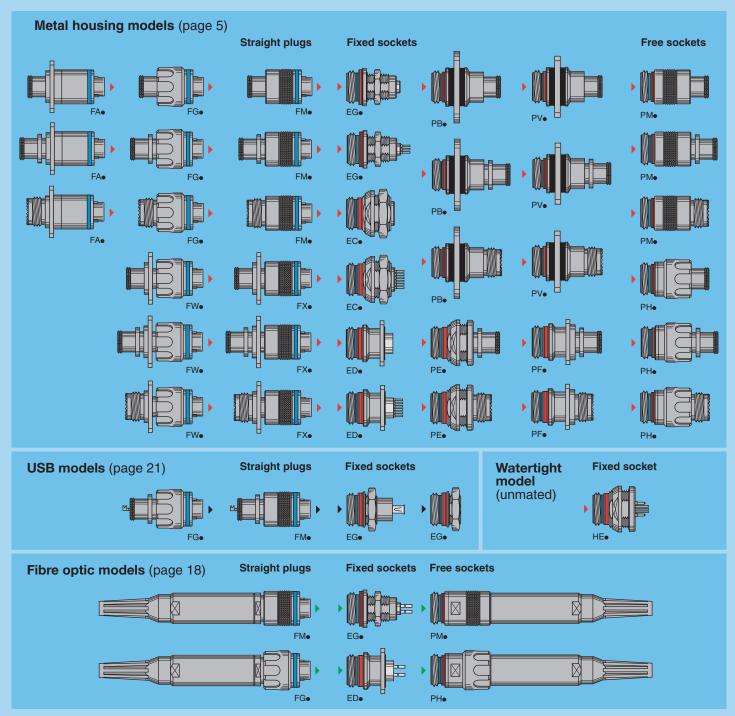
The M Series connector offers a new innovative design for avionics, aerospace, military, security, motorsport and heavy duty applications.

Made of high-strength aluminium, this connector is one of the lightest and most compact of the LEMO product line. A one-grip ratchet screw system enables quick and secure coupling of the connectors. The arctic grip makes it easy to manipulate the connector while wearing gloves or when the connector is located in a difficult to access area.

### **Features**

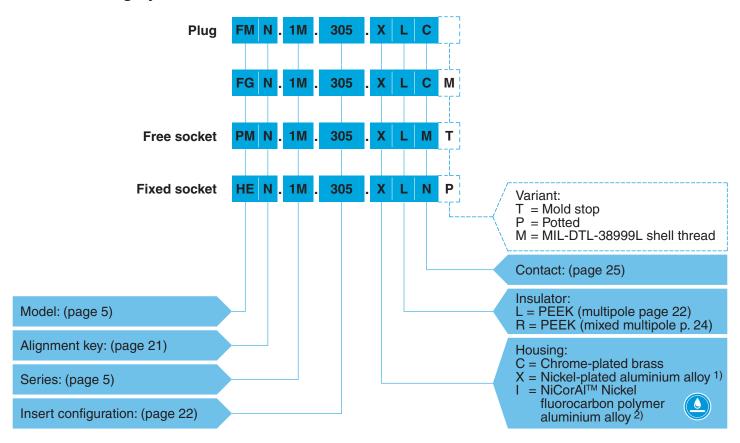
- Ratchet-coupling mechanismCompact design for space savings
- Oil and fuel resistant
- 360° screening for full EMC shielding
- Colour coding / keying
- Scoop proof
- Threaded for MIL-DTL-38999L backshell

- Quick mating: less than 3/4 turn to seat
- Lightweight
- High vibration and shock resistance
- Sealed to IP68 when mated
- Reverse gender configuration
- Pin configuration from 2 to 114 contacts





### Part Numbering System



### Part Number Example

Straight plug: FMN.1M.305.XLC = straight plug with key (N), 1M series, multipole type with 5 contacts, outer shell in anthracite nickelplated aluminium alloy, PEEK insulator, male crimp contacts.

FGN.1M.305.XLCM = straight plug with key (N), arctic grip, 1M series, multipole type with 5 contacts, outer shell in anthracite nickel-plated aluminium alloy, PEEK insulator, male crimp contacts and with MIL-DTL-38999L thread for additional backshell (not supplied).

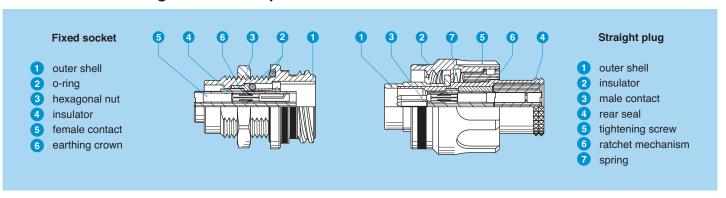
### Free socket:

PMN.1M.305.XLMT = free socket with key (N), 1M series, multipole type with 5 contacts, outer shell in anthracite nickelplated aluminium alloy, PEEK insulator, female crimp contacts and mold stop.

HEN.1M.305.XLNP = fixed socket, nut fixing, with key (N), 1M series, multipole type with 5 contacts, outer shell in anthracite nickel-plated aluminium alloy, PEEK insulator, female print contacts, watertight.

Note: 1) anthracite colour / 48 hours salt fog resistance. 2 anthracite colour / 500 hours salt fog resistance RoHS 2/REACH.

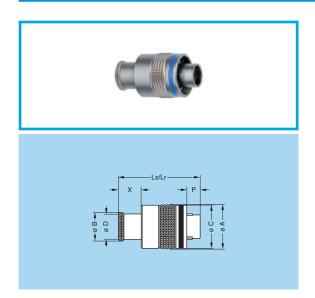
### **Part Section Showing Internal Components**







### Metal housing models

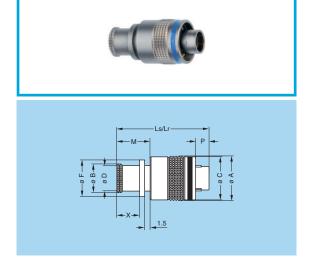


Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip

Refe			Din	nensio	ons (m	nm)			
Model	Series	Α	В	С	D	Ls	Lr	Р	Х
FM●	MM	11.1	6.4	10.7	5.6	21.3	21.3	5.5	5.8
FM●	OM	13.1	8.8	12.7	8.0	24.1	24.1	3.9	6.7
FM●	1M	14.6	10.5	14.2	9.7	24.1	24.1	3.9	6.7
FM●	2M	17.6	14.0	17.2	13.0	24.5	24.5	3.9	7.1
FM●	3M	19.6	16.0	19.2	15.0	24.5	24.5	3.9	7.1
FM●	TM	22.5	17.9	22.0	16.7	28.6	28.6	3.4	7.6
FM●	4M	25.0	20.7	24.5	19.5	28.6	28.6	3.4	7.6
FM●	LM	28.5	23.9	28.0	22.7	28.6	28.6	3.4	7.6
FM●	5M	34.0	29.7	33.5	28.5	28.6	28.6	3.4	7.6

Part number example: FMN.1M.305.XLC Note: Ls = standard gender, Lr = reverse gender

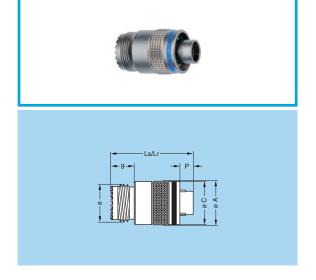
FMo Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and mold stop



Refe	rence				Din	nensio	ons (m	nm)			
Model	Series	Α	В	С	D	F	Ls	Lr	М	Р	Х
FM●	MM	11.1	6.4	10.7	5.6	7.8	24.3	24.3	8.8	5.5	5.8
FM●	OM	13.1	8.8	12.7	8.0	10.7	27.1	27.1	9.7	3.9	6.7
FM●	1M	14.6	10.5	14.2	9.7	12.4	27.1	27.1	9.7	3.9	6.7
FM●	2M	17.6	14.0	17.2	13.0	15.5	27.5	27.5	10.1	3.9	7.1
FM●	ЗМ	19.6	16.0	19.2	15.0	17.5	27.5	27.5	10.1	3.9	7.1
FM●	TM	22.5	17.9	22.0	16.7	19.8	31.6	31.6	10.6	3.4	7.6
FM●	4M	25.0	20.7	24.5	19.5	22.6	31.6	31.6	10.6	3.4	7.6
FM●	LM	28.5	23.9	28.0	22.7	25.8	31.6	31.6	10.6	3.4	7.6
FM●	5M	34.0	29.7	33.5	28.5	31.4	31.6	31.6	10.6	3.4	7.6

Part number example: FMN.1M.305.XLCT Note: Ls = standard gender, Lr = reverse gender

Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and MIL-DTL-38999L shell thread



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Refe	rence	Dimensions (mm)									
Model	Series	Α	С	е	Ls	Lr	Р	Code <sup>1)</sup>			
FM●	1M	14.6	14.2	M12x1.0	26.4	26.4	3.9	Α			
FM●	2M	17.6	17.2	M15x1.0	26.4	26.4	3.9	В			
FM●	ЗМ	19.6	19.2	M18x1.0	26.4	26.4	3.9	С			
FM●	TM	22.5	22.0	M18x1.0	30.0	30.0	3.4	С			
FM●	4M	25.0	24.5	M22x1.0	30.0	30.0	3.4	D			
FM●	LM	28.5	28.0	M25x1.0	30.0	30.0	3.4	Е			
FM●	5M	34.0	33.5	M31x1.0	30.0	30.0	3.4	G			

Part number example: FMN.1M.305.XLCM

**Note:** Ls = standard gender, Lr = reverse gender. <sup>1)</sup> MIL-DTL-38999L shell size code (backshell not supplied).

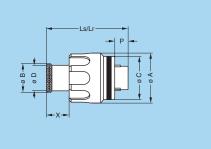
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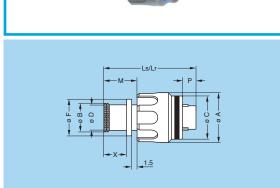
FGo Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with arctic grip

Refe	rence			Din	nensio	ons (m	nm)		
Model	Series	Α	В	С	D	Ls	Lr	Р	Х
FG●	MM	12.0	6.4	10.7	5.6	21.3	21.3	5.5	5.8
FG●	OM	14.4	8.8	12.7	8.0	24.1	24.1	3.9	6.7
FG●	1M	15.9	10.5	14.2	9.7	24.1	24.1	3.9	6.7
FG●	2M	18.9	14.0	17.2	13.0	24.5	24.5	3.9	7.1
FG●	3M	20.9	16.0	19.2	15.0	24.5	24.5	3.9	7.1
FG●	TM	23.4	17.9	22.0	16.7	28.6	28.6	3.4	7.6
FG●	4M	25.9	20.7	24.5	19.5	28.6	28.6	3.4	7.6
FG●	LM	29.4	23.9	28.0	22.7	28.6	28.6	3.4	7.6
FG●	5M	34.9	29.7	33.5	28.5	28.6	28.6	3.4	7.6

Part number example: FGN.1M.305.XLC

Note: Ls = standard gender, Lr = reverse gender

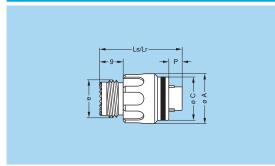




FGo Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with arctic grip and mold stop

Refe	rence	Dimensions (mm)										
Model	Series	Α	В	С	D	F	Ls	Lr	М	Р	Х	
FG●	MM	12.0	6.4	10.7	5.6	7.8	24.3	24.3	8.8	5.5	5.8	
FG●	OM	14.4	8.8	12.7	8.0	10.7	27.1	27.1	9.7	3.9	6.7	
FG●	1M	15.9	10.5	14.2	9.7	12.4	27.1	27.1	9.7	3.9	6.7	
FG●	2M	18.9	14.0	17.2	13.0	15.5	27.5	27.5	10.1	3.9	7.1	
FG●	ЗМ	20.9	16.0	19.2	15.0	17.5	27.5	27.5	10.1	3.9	7.1	
FG●	TM	23.4	17.9	22.0	16.7	19.8	31.6	31.6	10.6	3.4	7.6	
FG●	4M	25.9	20.7	24.5	19.5	22.6	31.6	31.6	10.6	3.4	7.6	
FG●	LM	29.4	23.9	28.0	22.7	25.8	31.6	31.6	10.6	3.4	7.6	
FG●	5M	34.9	29.7	33.5	28.5	31.4	31.6	31.6	10.6	3.4	7.6	

**Part number example:** FGN.1M.305.XLCT **Note:** Ls = standard gender, Lr = reverse gender



FGo Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with arctic grip and MIL-DTL-38999L shell thread

					. ,			
Refe	rence			Dimens	ions (	mm)		
Model	Series	Α	С	е	Ls	Lr	Р	Code <sup>1)</sup>
FG●	1M	15.9	14.2	M12x1.0	26.4	26.4	3.9	Α
FG●	2M	18.9	17.2	M15x1.0	26.4	26.4	3.9	В
FG●	3M	20.9	19.2	M18x1.0	26.4	26.4	3.9	С
FG∙	TM	23.4	22.0	M18x1.0	30.0	30.0	3.4	С
FG∙	4M	25.9	24.5	M22x1.0	30.0	30.0	3.4	D
FG●	LM	29.4	28.0	M25x1.0	30.0	30.0	3.4	Е
FG∙	5M	34.9	33.5	M31x1.0	30.0	30.0	3.4	G

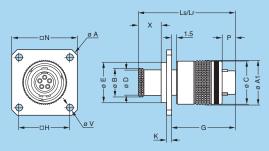
Part number example: FGN.1M.305.XLCM

**Note:** Ls = standard gender, Lr = reverse gender. <sup>1)</sup> MIL-DTL-38999L shell size code (backshell not supplied).

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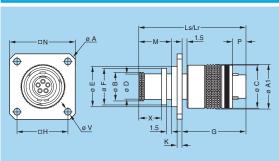
# FXo Straight plug with square flange, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip

Refe	rence					Di	mens	ions	(mm)					
Model	Series	Α	A1	В	С	D	Е	G	Н	K	Ls	Lr	N	٧
FX●	MM	21.5	11.1	6.4	10.7	5.6	9.5	17.0	12.0	1.5	26.1	26.1	17.0	2.7
FX●	OM	26.9	13.1	8.8	12.7	8.0	12.2	18.9	15.1	1.5	29.1	29.1	20.6	2.7
FX●	1M	31.4	14.6	10.5	14.2	9.7	13.7	18.9	18.3	1.5	29.1	29.1	23.8	3.3
FX●	2M	34.6	17.6	14.0	17.2	13.0	16.7	18.9	20.6	1.5	29.5	29.5	26.1	3.3
FX●	3M	34.6	19.6	16.0	19.2	15.0	18.7	18.9	20.6	1.5	29.5	29.5	26.1	3.3
FX●	TM	38.0	22.5	17.9	22.0	16.7	21.5	22.5	23.0	2.0	34.8	34.8	28.5	3.3
FX●	4M	40.3	25.0	20.7	24.5	19.5	24.0	22.5	24.6	2.0	34.8	34.8	30.1	3.3
FX●	LM	43.7	28.5	23.9	28.0	22.7	27.5	22.5	27.0	2.0	34.8	34.8	32.5	3.3
FX●	5M	47.0	34.0	29.7	33.5	28.5	33.0	22.5	29.4	2.0	34.8	34.8	37.0	3.3

Part number example: FXN.1M.305.XLC

**Note:** The dimensions «P» and «X» are the same as the FM• models. Ls = standard gender, Lr = reverse gender.





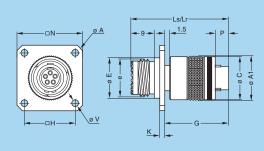
# FXo Straight plug with square flange, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and mold stop

Refe	rence					Di	mens	ions	(mm)					
Model	Series	Α	A1	В	С	D	Е	G	Н	K	Ls	Lr	N	٧
FX●	MM	21.5	11.1	6.4	10.7	5.6	9.5	17.0	12.0	1.5	29.1	29.1	17.0	2.7
FX●	OM	26.9	13.1	8.8	12.7	8.0	12.2	18.9	15.1	1.5	32.1	32.1	20.6	2.7
FX●	1M	31.4	14.6	10.5	14.2	9.7	13.7	18.9	18.3	1.5	32.1	32.1	23.8	3.3
FX●	2M	34.6	17.6	14.0	17.2	13.0	16.7	18.9	20.6	1.5	32.5	32.5	26.1	3.3
FX●	3M	34.6	19.6	16.0	19.2	15.0	18.7	18.9	20.6	1.5	32.5	32.5	26.1	3.3
FX●	TM	38.0	22.5	17.9	22.0	16.7	21.5	22.5	23.0	2.0	37.8	37.8	28.5	3.3
FX●	4M	40.3	25.0	20.7	24.5	19.5	24.0	22.5	24.6	2.0	37.8	37.8	30.1	3.3
FX●	LM	43.7	28.5	23.9	28.0	22.7	27.5	22.5	27.0	2.0	37.8	37.8	32.5	3.3
FX●	5M	47.0	34.0	29.7	33.5	28.5	33.0	22.5	29.4	2.0	37.8	37.8	37.0	3.3

Part number example: FXN.1M.305.XLCT

**Note:** The dimensions «F», «M», «P» and «X» are the same as the FM● models. Ls = standard gender, Lr = reverse gender.





# FXo Straight plug with square flange, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and MIL-DTL-38999L shell thread

Refe	rence				Di	mens	sions	(mm)				
Model	Series	Α	A1	С	е	Е	G	Н	K	Ls	Lr	Code <sup>1)</sup>
FX●	1M	31.4	14.6	14.2	M12x1.0	13.7	18.9	18.3	1.5	31.4	31.4	Α
FX●	2M	34.6	1.4   14.6   14.2   M12x1.0   13.7   18.9   18.3   1.5   31.4   31.4   A.6   17.6   17.2   M15x1.0   16.7   18.9   20.6   1.5   31.4   31.4   E									
FX●	ЗМ	34.6	19.6	19.2	M18x1.0	18.7	18.9	20.6	1.5	31.4	31.4	С
FX●	TM	38.0	22.5	22.0	M18x1.0	21.5	22.5	23.0	2.0	36.2	36.2	С
FX●	4M	40.3	25.0	24.5	M22x1.0	24.0	22.5	24.6	2.0	36.2	36.2	D
FX●	LM	43.7	28.5	28.0	M25x1.0	27.5	22.5	27.0	2.0	36.2	36.2	Е
FX●	5M	47.0	34.0	33.5	M31x1.0	33.0	22.5	29.4	2.0	36.2	36.2	F

Part number example: FXN.1M.305.XLCM

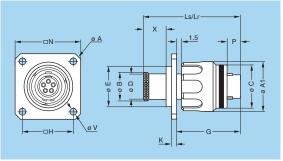
**Note:** The dimensions «N» and «V» are the same as the FX• models and the dimension «P» is the same as the FM• models. Ls = standard gender, Lr = reverse gender. 

1) MIL-DTL-38999L shell size code (backshell not supplied).

**DISCLAIMER** The information contained within this catalog and the functions offered are intended to provide information about products. All reasonable efforts have been made to ensure the accuracy of the information. However, LEMO cannot be held responsible for any errors. LEMO does not warrant the accuracy and reserves the right to make changes to the catalog and its functions at any time without notice.







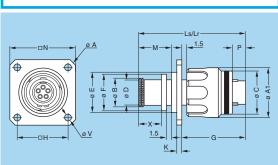
# FWo Straight plug with square flange, key (N) or keys (P, R, S, T, U, V, W and X) with arctic grip

	Refe	rence					Di	mens	ions	(mm)					
	Model	Series	Α	A1	В	С	D	Е	G	Н	K	Ls	Lr	N	٧
Ī	FW●	MM	21.5	12.0	6.4	10.7	5.6	9.5	17.0	12.0	1.5	26.1	26.1	17.0	2.7
	FW●	OM	26.9	14.4	8.8	12.7	8.0	12.2	18.9	15.1	1.5	29.1	29.1	20.6	2.7
	FW●	1M	31.4	15.9	10.5	14.2	9.7	13.7	18.9	18.3	1.5	29.1	29.1	23.8	3.3
	FW●	2M	34.6	18.9	14.0	17.2	13.0	16.7	18.9	20.6	1.5	29.5	29.5	26.1	3.3
	FW●	ЗМ	34.6	20.9	16.0	19.2	15.0	18.7	18.9	20.6	1.5	29.5	29.5	26.1	3.3
	FW●	TM	38.0	23.4	17.9	22.0	16.7	21.5	22.5	23.0	2.0	34.8	34.8	28.5	3.3
	FW●	4M	40.3	25.9	20.7	24.5	19.5	24.0	22.5	24.6	2.0	34.8	34.8	30.1	3.3
	FW●	LM	43.7	29.4	23.9	28.0	22.7	27.5	22.5	27.0	2.0	34.8	34.8	32.5	3.3
	FW●	5M	47.0	34.9	29.7	33.5	28.5	33.0	22.5	29.4	2.0	34.8	34.8	37.0	3.3

Part number example: FWN.1M.305.XLC

**Note:** The dimensions «P» and «X» are the same as the FM• models. Ls = standard gender, Lr = reverse gender.





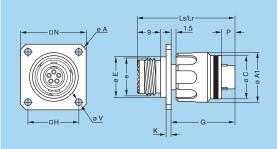
# FWo Straight plug with square flange, key (N) or keys (P, R, S, T, U, V, W and X) with arctic grip and mold stop

Refe	rence					Di	mens	ions	(mm)					
Model	Series	Α	A1	В	С	D	Е	G	Н	K	Ls	Lr	N	٧
FW●	MM	21.5	12.0	6.4	10.7	5.6	9.5	17.0	12.0	1.5	29.1	29.1	17.0	2.7
FW●	OM	26.9	14.4	8.8	12.7	8.0	12.2	18.9	15.1	1.5	32.1	32.1	20.6	2.7
FW●	1M	31.4	15.9	10.5	14.2	9.7	13.7	18.9	18.3	1.5	32.1	32.1	23.8	3.3
FW●	2M	34.6	18.9	14.0	17.2	13.0	16.7	18.9	20.6	1.5	32.5	32.5	26.1	3.3
FW●	3M	34.6	20.9	16.0	19.2	15.0	18.7	18.9	20.6	1.5	32.5	32.5	26.1	3.3
FW●	TM	38.0	23.4	17.9	22.0	16.7	21.5	22.5	23.0	2.0	37.8	37.8	28.5	3.3
FW●	4M	40.3	25.9	20.7	24.5	19.5	24.0	22.5	24.6	2.0	37.8	37.8	30.1	3.3
FW●	LM	43.7	29.4	23.9	28.0	22.7	27.5	22.5	27.0	2.0	37.8	37.8	32.5	3.3
FW●	5M	47.0	34.9	29.7	33.5	28.5	33.0	22.5	29.4	2.0	37.8	37.8	37.0	3.3

Part number example: FWN.1M.305.XLCT

**Note:** The dimensions "F", "M", "P" and "X" are the same as the FMullet models. Ls = standard gender, Lr = reverse gender.





FWo Straight plug with square flange, key (N) or keys (P, R, S, T, U, V, W and X) with arctic grip and MIL-DTL-38999L shell thread

Refe	rence				Di	mens	ions	(mm)				
Model	Series	Α	A1	С	е	Е	G	Н	K	Ls	Lr	Code <sup>1)</sup>
FW●	1M	31.4	15.9	14.2	M12x1.0	13.7	18.9	18.3	1.5	31.4	31.4	Α
FW●	2M	34.6	18.9	17.2	M15x1.0	16.7	18.9	20.6	1.5	31.4	31.4	В
FW●	ЗМ	34.6	20.9	19.2	M18x1.0	18.7	18.9	20.6	1.5	31.4	31.4	С
FW●	TM	38.0	23.4	22.0	M18x1.0	21.5	22.5	23.0	2.0	36.2	36.2	С
FW●	4M	40.3	25.9	24.5	M22x1.0	24.0	22.5	24.6	2.0	36.2	36.2	D
FW●	LM	43.7	29.4	28.0	M25x1.0	27.5	22.5	27.0	2.0	36.2	36.2	Е
FW●	5M	47.0	34.9	33.5	M31x1.0	33.0	22.5	29.4	2.0	36.2	36.2	F

Part number example: FWN.1M.305.XLCM

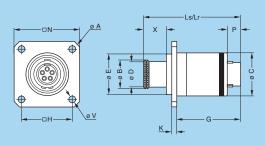
**Note:** The dimensions «N» and «V» are the same as the FW• models and the dimension «P» is the same as the FM• models. Ls = standard gender, Lr = reverse gender. 

1) MIL-DTL-38999L shell size code (backshell not supplied).

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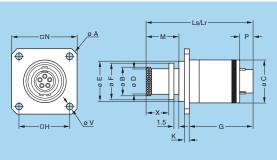
# FA Straight plug with square flange, non-coupling, key (N) or keys (P, R, S, T, U, V, W and X)

Refe	rence					Di	mens	ions	(mm	)				
Model	Series	Α	В	С	D	Е	G	Н	K	Ls	Lr	Ν	Р	٧
FA●	MM	21.5	6.4	10.7	5.6	9.5	17.0	12.0	1.5	26.1	26.1	17.0	5.5	2.7
FA●	OM	26.9	8.8	12.7	8.0	12.2	18.9	15.1	1.5	29.1	29.1	20.6	3.9	2.7
FA●	1M	31.4	10.5	14.2	9.7	13.7	18.9	18.3	1.5	29.1	29.1	23.8	3.9	3.3
FA●	2M	34.6	14.0	17.2	13.0	16.7	18.9	20.6	1.5	29.5	29.5	26.1	3.9	3.3
FA●	3M	34.6	16.0	19.2	15.0	18.7	18.9	20.6	1.5	29.5	29.5	26.1	3.9	3.3
FA●	TM	38.0	17.9	22.0	16.7	21.5	22.5	23.0	2.0	34.8	34.8	28.5	3.4	3.3
FA●	4M	40.3	20.7	24.5	19.5	24.0	22.5	24.6	2.0	34.8	34.8	30.1	3.4	3.3
FA●	LM	43.7	23.9	28.0	22.7	27.5	22.5	27.0	2.0	34.8	34.8	32.5	3.4	3.3
FA●	5M	47.0	29.7	33.5	28.5	33.0	22.5	29.4	2.0	34.8	34.8	37.0	3.4	3.3

Part number example: FAN.1M.305.XLC

**Note:** The dimension «X» is the same as the FM● models. Ls = standard gender, Lr = reverse gender.





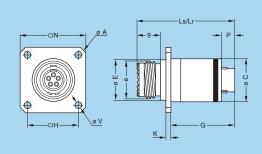
# FA• Straight plug with square flange, non-coupling, key (N) or keys (P, R, S, T, U, V, W and X) with mold stop

Refe	rence					Di	mens	ions	(mm	)				
Model	Series	Α	В	С	D	E	G	Н	K	Ls	Lr	N	Р	٧
FA●	MM	21.5	6.4	10.7	5.6	9.5	17.0	12.0	1.5	29.1	29.1	17.0	5.5	2.7
FA●	OM	26.9	8.8	12.7	8.0	12.2	18.9	15.1	1.5	32.1	32.1	20.6	3.9	2.7
FA●	1M	31.4	10.5	14.2	9.7	13.7	18.9	18.3	1.5	32.1	32.1	23.8	3.9	3.3
FA●	2M	34.6	14.0	17.2	13.0	16.7	18.9	20.6	1.5	32.5	32.5	26.1	3.9	3.3
FA●	ЗМ	34.6	16.0	19.2	15.0	18.7	18.9	20.6	1.5	32.5	32.5	26.1	3.9	3.3
FA●	TM	38.0	17.9	22.0	16.7	21.5	22.5	23.0	2.0	37.8	37.8	28.5	3.4	3.3
FA●	4M	40.3	20.7	24.5	19.5	24.0	22.5	24.6	2.0	37.8	37.8	30.1	3.4	3.3
FA●	LM	43.7	23.9	28.0	22.7	27.5	22.5	27.0	2.0	37.8	37.8	32.5	3.4	3.3
FA●	5M	47.0	29.7	33.5	28.5	33.0	22.5	29.4	2.0	37.8	37.8	37.0	3.4	3.3

Part number example: FAN.1M.305.XLCT

**Note:** The dimensions "F", "M" and "X" are the same as the FM models. Ls = standard gender, Lr = reverse gender.





# FAo Straight plug with square flange, non-coupling, key (N) or keys (P, R, S, T, U, V, W and X) with MIL-DTL-38999L shell thread

Re	ference				Diı	nens	ions (	mm	)			
Model	Series	А	С	е	Е	G	Н	K	Ls	Lr	N	Code <sup>1)</sup>
FA●	1M	31.4	14.2	M12x1.0	13.7	18.9	18.3	1.5	31.4	31.4	23.8	Α
FA●	2M	34.6	17.2	M15x1.0	16.7	18.9	20.6	1.5	31.4	31.4	26.1	В
FA●	3M	34.6	19.2	M18x1.0	18.7	18.9	20.6	1.5	31.4	31.4	26.1	С
FA●	TM	38.0	22.0	M18x1.0	21.5	22.5	23.0	2.0	36.2	36.2	28.5	С
FA●	4M	40.3	24.5	M22x1.0	24.0	22.5	24.6	2.0	36.2	36.2	30.1	D
FA●	LM	43.7	28.0	M25x1.0	27.5	22.5	27.0	2.0	36.2	36.2	32.5	Е
FA●	5M	47.0	33.5	M31x1.0	33.0	22.5	29.4	2.0	36.2	36.2	37.0	F

Part number example: FAN.1M.305.XLCM

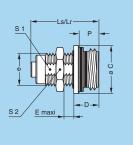
**Note:** The dimensions «P» and «V» are the same as the FA• models. Ls = standard gender, Lr = reverse gender. ¹) MIL-DTL-38999L shell size code (backshell not supplied).

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# Fixed socket, nut fixing, key (N) or keys (P, R, S, T, U, V, W and X)

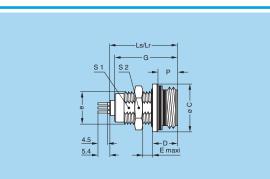
Refe	rence			Dir	nensi	ons (n	nm)			
Model	Series	С	D	е	Е	Ls	Lr	Р	S1	S2
EG●	MM	10.7	5.2	M7x0.5	4.5	15.0	15.0	3.7	6.3	9.0
EG●	OM	12.7	6.8	M9x0.6	5.0	18.3	18.3	5.3	8.2	11.0
EG●	1M	14.2	6.8	M11x1.0	4.5	18.3	18.3	5.3	9.5	13.0
EG●	2M	17.2	6.8	M14x1.0	4.5	18.3	18.3	5.3	12.5	17.0
EG●	ЗМ	19.2	6.8	M16x1.0	4.0	18.3	18.3	5.3	14.5	19.0
EG●	TM	22.0	9.4	M18x1.0	4.0	20.0	21.9	7.9	16.5	22.0
EG●	4M	24.5	9.4	M21x1.0	4.0	20.0	21.9	7.9	19.5	25.0
EG●	LM	28.0	9.4	M24x1.0	4.0	20.0	21.9	7.9	22.5	30.0
EG●	5M	33.5	9.4	M30x1.0	4.0	20.0	21.9	7.9	28.5	36.0

Part number example: EGN.1M.305.XLM

Panel cut-out (page 31).

**Note:** Ls = standard gender, Lr = reverse gender





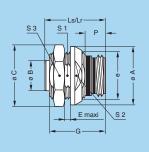
# Fixed socket, nut fixing, key (N) or keys (P, R, S, T, U, V, W and X) for printed circuit

Refe	rence				Dime	nsions	(mm	)			
Model	Series	С	D	е	Е	G	Ls	Lr	Р	S1	S2
EG●	MM	10.7			4.5	13.8	15.0	15.0	3.7	6.3	9.0
EG●	OM	12.7	6.8	M9x0.6	5.0	16.8	18.3	18.3	5.3	8.2	11.0
EG●	1M	14.2			4.5	16.8	18.3	18.3	5.3	9.5	13.0
EG●	2M	17.2	6.8	M14x1.0	4.5	16.8	18.3	18.3	5.3	12.5	17.0
EG●	3M	19.2	6.8	M16x1.0	4.0	16.8	18.3	18.3	5.3	14.5	19.0
EG●	TM	22.0	9.4	M18x1.0	4.0	18.9	20.0	21.9	7.9	16.5	22.0
EG●	4M	24.5	9.4	M21x1.0	4.0	18.9	20.0	21.9	7.9	19.5	25.0
EG●	LM	28.0	9.4	M24x1.0	4.0	18.9	20.0	21.9	7.9	22.5	30.0
EG●	5M	33.5	9.4	M30x1.0	4.0	18.9	20.0	21.9	7.9	28.5	36.0

Part number example: EGN.1M.305.XLN

Panel cut-out (page 31). PCB drilling pattern (page 32). **Note:** Ls = standard gender, Lr = reverse gender





# Fixed socket with two nuts, key (N) or keys (P, R, S, T, U, V, W and X)

Refe	rence					Dimen	sions	(mm)	)				
Model	Series	Α	В	С	Е	е	G	Ls	Lr	Р	S1	S2	S3
EC•	MM	14	2.85	13.5	5.0	M10x0.50	13.8	15.0	15.0	3.7	9.0	11.0	12.0
EC•	OM	17	4.72	18.2	5.0	M13x0.75	16.8	18.3	18.3	5.3	11.5	14.0	16.0
EC•	1M	18	5.95	19.2	5.0	M14x1.00	16.8	18.3	18.3	5.3	12.5	16.0	17.0
EC•	2M	21	8.95	21.5	4.0	M17x1.00	16.8	18.3	18.3	5.3	15.5	18.0	19.0
EC•	3M	23	10.95	25.0	4.0	M19x1.00	16.8	18.3	18.3	5.3	17.5	20.0	22.0
EC●	TM	27	12.30	28.0	2.5	M22x1.00	18.9	20.0	21.9	7.9	20.5	23.0	25.0
EC●	4M	29	13.95	34.0	2.5	M24x1.00	18.9	20.0	21.9	7.9	22.5	25.0	30.0
EC•	LM	33	17.95	36.0	2.5	M28x1.00	18.9	20.0	21.9	7.9	26.5	29.0	32.0
EC●	5M	38	22.90	41.0	2.5	M33x1.00	18.9	20.0	21.9	7.9	31.5	34.0	37.0

Part number example: ECN.1M.305.XLM

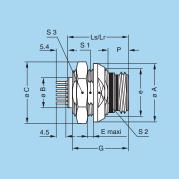
Panel cut-out (page 31).

**Note:** Ls = standard gender, Lr = reverse gender. This model is not IP68 (no panel sealing).

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# Fixed socket with two nuts, key (N) or keys (P, R, S, T, U, V, W and X) for printed circuit

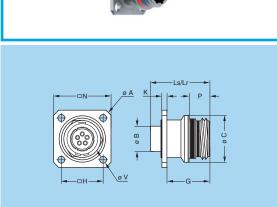
Refe	rence					Dimen	sions	(mm	)				
Model	Series	Α	В	С	E	е	G	Ls	Lr	Р	S1	S2	S3
EC•	MM	14	2.85	13.5	5.0	M10x0.50	13.8	15.0	15.0	3.7	9.0	11.0	12.0
EC•	OM	17	4.72	18.2	5.0	M13x0.75	16.8	18.3	18.3	5.3	11.5	14.0	16.0
EC•	1M	18	5.95	19.2	5.0	M14x1.00	16.8	18.3	18.3	5.3	12.5	16.0	17.0
EC•	2M	21	8.95	21.5	4.0	M17x1.00	16.8	18.3	18.3	5.3	15.5	18.0	19.0
EC•	ЗМ	23	10.95	25.0	4.0	M19x1.00	16.8	18.3	18.3	5.3	17.5	20.0	22.0
EC•	TM	27	12.30	28.0	2.5	M22x1.00	18.9	20.0	21.9	7.9	20.5	23.0	25.0
EC●	4M	29	13.95	34.0	2.5	M24x1.00	18.9	20.0	21.9	7.9	22.5	25.0	30.0
EC●	LM	33	17.95	36.0	2.5	M28x1.00	18.9	20.0	21.9	7.9	26.5	29.0	32.0
EC●	5M	38	22.90	41.0	2.5	M33x1.00	18.9	20.0	21.9	7.9	31.5	34.0	37.0

Part number example: ECN.1M.305.XLN

Panel cut-out (page 31). PCB drilling pattern (page 32).

**Note:** Ls = standard gender, Lr = reverse gender. This model is not IP68 (no panel sealing).





# Fixed socket with square flange, key (N) or keys (P, R, S, T, U, V, W and X)

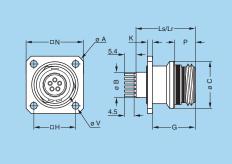
	Refe	rence				D	imens	ions	(mm)				
	Model	Series	Α	В	С	G	Н	K	Ls	Lr	N	Р	٧
Ī	ED●	MM	18.6	4.70	10.7	12.3	9.5	1.5	17.0	17.0	14.5	3.7	2.7
	ED●	OM	20.6	4.72	12.7	12.8	11.0	1.5	18.3	18.3	16.0	5.3	2.7
	ED●	1M	23.8	5.95	14.2	12.8	12.9	1.5	18.3	18.3	18.4	5.3	3.3
	ED●	2M	26.9	8.95	17.2	12.8	15.1	1.5	18.3	18.3	20.6	5.3	3.3
	ED●	3M	29.0	10.95	19.2	12.8	16.6	1.5	18.3	18.3	22.1	5.3	3.3
	ED●	TM	31.4	12.30	22.0	14.5	18.3	2.0	20.0	21.9	23.8	7.9	3.3
	ED●	4M	34.6	13.95	24.5	14.5	20.6	2.0	20.0	21.9	26.1	7.9	3.3
	ED●	LM	38.0	17.95	28.0	14.5	23.0	2.0	20.0	21.9	28.5	7.9	3.3
	ED●	5M	43.7	22.90	33.5	14.5	27.0	2.0	20.0	21.9	32.5	7.9	3.3

Part number example: EDN.1M.305.XLM

Panel cut-out (page 31).

Note: Ls = standard gender, Lr = reverse gender





# **ED•** Fixed socket with square flange, key (N) or keys (P, R, S, T, U, V, W and X) for printed circuit

Refe	rence				D	imens	ions	(mm)				
Model	Series	Α	В	С	G	Н	K	Ls	Lr	N	Р	V
ED●	MM	18.6	4.70	10.7	12.3	9.5	1.5	17.0	17.0	14.5	3.7	2.7
ED●	OM	20.6	4.72	12.7	12.8	11.0	1.5	18.3	18.3	16.0	5.3	2.7
ED●	1M	23.8	5.95	14.2	12.8	12.9	1.5	18.3	18.3	18.4	5.3	3.3
ED●	2M	26.9	8.95	17.2	12.8	15.1	1.5	18.3	18.3	20.6	5.3	3.3
ED●	3M	29.0	10.95	19.2	12.8	16.6	1.5	18.3	18.3	22.1	5.3	3.3
ED●	TM	31.4	12.30	22.0	14.5	18.3	2.0	20.0	21.9	23.8	7.9	3.3
ED●	4M	34.6	13.95	24.5	14.5	20.6	2.0	20.0	21.9	26.1	7.9	3.3
ED●	LM	38.0	17.95	28.0	14.5	23.0	2.0	20.0	21.9	28.5	7.9	3.3
ED●	5M	43.7	22.90	33.5	14.5	27.0	2.0	20.0	21.9	32.5	7.9	3.3

Part number example: EDN.1M.305.XLN

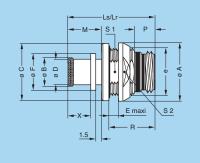
Panel cut-out (page 31). PCB drilling pattern (page 32).

Note: Ls = standard gender, Lr = reverse gender

DISCLAIMER The information contained within this catalog and the functions offered are intended to provide information about products. All reasonable efforts have been made to ensure the accuracy of the information. However, LEMO cannot be held responsible for any errors. LEMO does not warrant the accuracy and reserves the right to make changes to the catalog and its functions at any time without notice.







# PEo Fixed socket, nut fixing, key (N) or keys (P, R, S, T, U, V, W and X) with mold stop (back panel mounting)

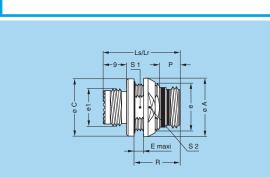
Refe	rence						Dimensio	ns (n	nm)					
Model	Series	Α	В	С	D	Е	е	Ls	Lr	М	Р	R	S1	S2
PE∙	MM	14	6.4	13.8	5.6	4.0	M10x0.50	21.4	21.4	8.8	3.7	10.5	9.0	11
PE●	OM	17	8.8	16.8	8.0	5.0	M13x0.75	25.6	25.6	9.7	5.3	13.8	11.5	14
PE●	1M	18	10.5	17.8	9.7	5.0	M14x1.00	25.6	25.6	9.7	5.3	13.8	12.5	16
PE●	2M	21	14.0	20.8	13.0	5.0	M17x1.00	26.0	26.0	10.1	5.3	13.8	15.5	18
PE●	3M	23	16.0	22.8	15.0	5.0	M19x1.00	26.0	26.0	10.1	5.3	13.8	17.5	20
PE●	TM	27	17.9	25.8	16.7	4.0	M22x1.00	29.5	30.1	10.6	7.9	16.9	20.5	23
PE●	4M	29	20.7	27.8	19.5	4.0	M24x1.00	29.5	30.1	10.6	7.9	16.9	22.5	25
PE●	LM	33	23.9	31.8	22.7	4.0	M28x1.00	29.5	30.1	10.6	7.9	16.9	26.5	29
PE●	5M	38	29.7	36.8	28.5	4.0	M33x1.00	29.5	30.1	10.6	7.9	16.9	31.5	34

Part number example: PEN.1M.305.XLMT

Panel cut-out (page 31).

**Note:** this model is only available with mold stop. The dimensions «F» and «X» are the same as the PB• models. Ls = standard gender, Lr = reverse gender.





# PE• Fixed socket, nut fixing, key (N) or keys (P, R, S, T, U, V, W and X) with MIL-DTL-38999L shell thread

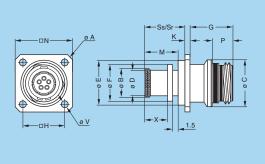
Refe	rence					Dimensio	ns (r	nm)				
Model	Series	Α	С	E	е	e1	Ls	Lr	R	S1	S2	Code <sup>1)</sup>
PE∙	1M	18	17.8	5.0	M14x1.0	M12x1.0	26.4	26.4	13.8	12.5	16	Α
PE●	2M	21	20.8	5.0	M17x1.0	M15x1.0	26.4	26.4	13.8	15.5	18	В
PE●	ЗМ	23	22.8	5.0	M19x1.0	M18x1.0	26.4	26.4	13.8	17.5	20	С
PE●	TM	27	25.8	4.0	M22x1.0	M18x1.0	28.2	30.1	16.9	20.5	23	С
PE●	4M	29	27.8	4.0	M24x1.0	M22x1.0	28.2	30.1	16.9	22.5	25	D
PE●	LM	33	31.8	4.0	M28x1.0	M25x1.0	28.2	30.1	16.9	26.5	29	Е
PE●	5M	38	36.8	4.0	M33x1.0	M31x1.0	28.2	30.1	16.9	31.5	34	G

Part number example: PEN.1M.305.XLMM

Panel cut-out (page 31).

**Note:** Ls = standard gender, Lr = reverse gender. The dimension «P» is the same as the PB $_{\bullet}$  models. <sup>1)</sup> MIL-DTL-38999L shell size code (backshell not supplied).





# PFo Fixed socket with square flange, key (N) or keys (P, R, S, T, U, V, W and X) with mold stop

Refe	rence					Dir	nens	ions (	(mm)					
Model	Series	Α	В	С	D	Е	F	G	Н	K	N	Ss	Sr	٧
PF●	MM	18.6	6.4	10.7	5.6	7.8	7.8	12.3	9.5	1.5	14.5	10.6	10.6	2.7
PF●	OM	20.6	8.8	12.7	8.0	10.7	10.7	12.8	11.0	1.5	16.0	11.3	11.3	2.7
PF●	1M	23.8	10.5	14.2	9.7	12.4	12.4	12.8	12.9	1.5	18.4	11.3	11.3	3.3
PF●	2M	26.9	14.0	17.2	13.0	15.5	15.5	12.8	15.1	1.5	20.6	11.7	11.7	3.3
PF●	3M	29.0	16.0	19.2	15.0	17.5	17.5	12.8	16.6	1.5	22.1	11.7	11.7	3.3
PF●	TM	31.4	17.9	22.0	16.7	19.8	19.8	14.5	18.3	2.0	23.8	13.0	13.6	3.3
PF●	4M	34.6	20.7	24.5	19.5	22.6	22.6	14.5	20.6	2.0	26.1	13.0	13.6	3.3
PF●	LM	38.0	23.9	28.0	22.7	25.8	25.8	14.5	23.0	2.0	28.5	13.0	13.6	3.3
PF●	5M	47.0	29.7	33.5	28.5	33.0	31.4	14.5	29.4	2.0	37.0	13.0	13.6	3.3

Part number example: PFN.1M.305.XLMT

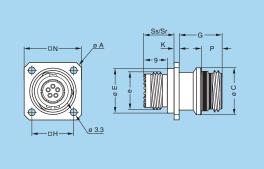
Panel cut-out (page 31).

**Note:** this model is only available with mold stop. The dimensions «M», «P» and «X» are the same as the PB $\bullet$  models. Ss = standard gender, Sr = reverse gender.

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# PFo Fixed socket with square flange, key (N) or keys (P, R, S, T, U, V, W and X) with MIL-DTL-38999L shell thread

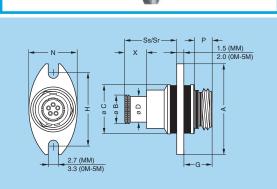
Refe	rence				Dir	nens	ions (	mm	)			
Model	Series	Α	С	е	Е	G	Н	K	N	Ss	Sr	Code <sup>1)</sup>
PF●	1M	23.8	14.2	M12x1.0	12.4	12.8	12.9	1.5	18.4	12.2	12.2	Α
PF●	2M	26.9	17.2	M15x1.0	15.5	12.8	15.1	1.5	20.6	12.2	12.2	В
PF●	3M	29.0	19.2	M18x1.0	17.5	12.8	16.6	1.5	22.1	12.2	12.2	С
PF●	TM	31.4	22.0	M18x1.0	19.8	14.5	18.3	2.0	23.8	11.7	13.6	С
PF●	4M	34.6	24.5	M22x1.0	22.6	14.5	20.6	2.0	26.1	11.7	13.6	D
PF●	LM	38.0	28.0	M25x1.0	25.8	14.5	23.0	2.0	28.5	11.7	13.6	Е
PF●	5M	47.0	33.5	M31x1.0	33.0	14.5	29.4	2.0	37.0	11.7	13.6	G

Part number example: PFN.1M.305.XLMM

Panel cut-out (page 31).

**Note:** The dimension «P» is the same as the PB• models. Ss = standard gender, Sr = reverse gender. ¹) MIL-DTL-38999L shell size code (backshell not supplied).





PBo Fixed socket with antivibration flange, key (N) or keys (P, R, S, T, U, V, W and X), 2 holes fixing

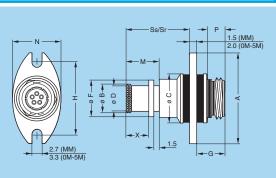
	Refe	rence				С	imen	sions	(mm)	)			
	Model	Series	Α	В	С	D	G	Н	Ν	Р	Ss	Sr	Χ
Ī	PB∙	MM	21.0	6.4	11.3	5.6	6.7	16.2	12.5	3.7	13.2	13.2	5.8
	PB∙	OM	27.0	8.8	14.5	8.0	8.3	21.4	16.0	5.3	15.3	15.3	6.7
	PB●	1M	29.0	10.5	16.5	9.7	8.3	23.4	18.0	5.3	15.3	15.3	6.7
	PB∙	2M	32.0	14.0	19.5	13.0	8.3	26.4	21.0	5.3	15.7	15.7	7.1
	PB∙	ЗМ	35.0	16.0	21.5	15.0	8.3	29.0	23.0	5.3	15.7	15.7	7.1
	PB∙	TM	38.5	17.9	24.5	16.7	11.0	32.5	26.0	7.9	15.2	17.1	7.6
	PB∙	4M	41.0	20.7	27.5	19.5	11.0	35.0	29.0	7.9	15.2	17.1	7.6
	PB●	LM	44.0	23.9	30.5	22.7	11.0	38.0	32.0	7.9	15.2	17.1	7.6
	PB∙	5M	51.0	29.7	37.5	28.5	11.0	45.0	39.0	7.9	15.2	17.1	7.6

Part number example: PBN.1M.305.XLM

Panel cut-out (page 31).

Note: Ss = standard gender, Sr = reverse gender





# PBo Fixed socket with antivibration flange, key (N) or keys (P, R, S, T, U, V, W and X), 2 holes fixing with mold stop

Refe	rence					Dii	mens	ions	(mm)					
Model	Series	Α	В	С	D	F	G	Н	М	N	Р	Ss	Sr	Х
PB∙	MM	21.0	6.4	11.3	5.6	7.8	6.7	16.2	8.8	12.5	3.7	16.2	16.2	5.8
PB●	OM	27.0	8.8	14.5	8.0	10.7	8.3	21.4	9.7	16.0	5.3	18.3	18.3	6.7
PB●	1M	29.0	10.5	16.5	9.7	12.4	8.3	23.4	9.7	18.0	5.3	18.3	18.3	6.7
PB●	2M	32.0	14.0	19.5	13.0	15.5	8.3	26.4	10.1	21.0	5.3	18.7	18.7	7.1
PB●	ЗМ	35.0	16.0	21.5	15.0	17.5	8.3	29.0	10.1	23.0	5.3	18.7	18.7	7.1
PB●	TM	38.5	17.9	24.5	16.7	19.8	11.0	32.5	10.6	26.0	7.9	18.2	18.2	7.6
PB●	4M	41.0	20.7	27.5	19.5	22.6	11.0	35.0	10.6	29.0	7.9	18.2	18.2	7.6
PB●	LM	44.0	23.9	30.5	22.7	25.8	11.0	38.0	10.6	32.0	7.9	18.2	18.2	7.6
PB●	5M	51.0	29.7	37.5	28.5	31.4	11.0	45.0	10.6	39.0	7.9	18.2	18.2	7.6

Part number example: PBN.1M.305.XLMT

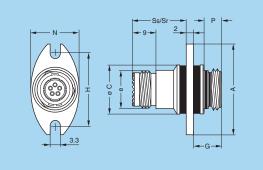
Panel cut-out (page 31).

**Note:** Ss = standard gender, Sr = reverse gender

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### Fixed socket with antivibration flange, key (N) or keys (P, R, S, T, U, V, W and X), 2 holes fixing with MIL-DTL-38999L shell thread

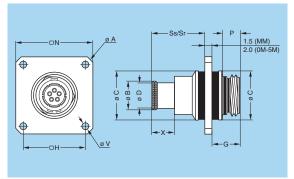
Refe	rence				Dime	nsion	s (mr	n)			
Model	Series	Α	С	е	G	Н	N	Р	Ss	Sr	Code <sup>1)</sup>
PB●	1M	29.0	16.5	M12x1.0	8.3	23.4	18.0	5.3	17.2	17.2	Α
PB●	2M	32.0	19.5	M15x1.0	8.3	26.4	21.0	5.3	17.2	17.2	В
PB●	ЗМ	35.0	21.5	M18x1.0	8.3	29.0	23.0	5.3	17.2	17.2	С
PB●	TM	38.5	24.5	M18x1.0	11.0	32.5	26.0	7.9	16.2	17.1	С
PB●	4M	41.0	27.5	M22x1.0	11.0	35.0	29.0	7.9	16.2	17.1	D
PB●	LM	44.0	30.5	M25x1.0	11.0	38.0	32.0	7.9	16.2	17.1	Е
PB●	5M	51.0	37.5	M31x1.0	11.0	45.0	39.0	7.9	16.2	17.1	G

Part number example: PBN.1M.305.XLMM

Panel cut-out (page 31).

Note: Ss = standard gender, Sr = reverse gender. 1) MIL-DTL-38999L shell size code (backshell not supplied).





# Fixed socket with antivibration square flange, key (N) or keys (P, R, S, T, U, V, W and X) $\,$

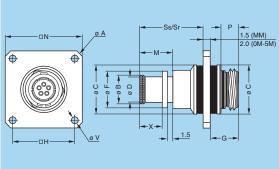
Refe	rence					Dime	ensio	ns (m	m)				
Model	Series	Α	В	С	D	G	Н	N	Р	Ss	Sr	٧	Х
PV●	MM	21.5	6.4	11.3	5.6	6.7	12.0	17.0	3.7	13.2	13.2	2.7	5.8
PV●	OM	26.9	8.8	14.5	8.0	8.3	15.1	20.6	5.3	15.3	15.3	2.7	6.7
PV●	1M	31.4	10.5	16.5	9.7	8.3	18.3	23.8	5.3	15.3	15.3	3.3	6.7
PV●	2M	34.6	14.0	19.5	13.0	8.3	20.6	26.1	5.3	15.7	15.7	3.3	7.1
PV●	3M	38.0	16.0	21.5	15.0	8.3	23.0	28.5	5.3	15.7	15.7	3.3	7.1
PV●	TM	40.3	17.9	24.5	16.7	11.0	24.6	30.1	7.9	15.2	17.1	3.3	7.6
PV●	4M	43.7	20.7	27.5	19.5	11.0	27.0	32.5	7.9	15.2	17.1	3.3	7.6
PV●	LM	47.1	23.9	30.5	22.7	11.0	29.4	34.9	7.9	15.2	17.1	3.3	7.6
PV●	5M	54.9	29.7	37.5	28.5	11.0	34.9	40.4	7.9	15.2	17.1	3.3	7.6

Part number example: PVN.1M.305.XLM

Panel cut-out (page 31).

Note: Ss = standard gender, Sr = reverse gender





# PVo Fixed socket with antivibration square flange, key (N) or keys (P, R, S, T, U, V, W and X) with mold stop

Refe	rence					Dir	mens	ions	(mm)					
Model	Series	Α	В	С	D	F	G	Н	М	N	Р	Ss	Sr	Х
PV●	MM	21.5	6.4	11.3	5.6	7.8	6.7	12.0	8.8	17.0	3.7	16.2	16.2	5.8
PV●	OM	26.9	8.8	14.5	8.0	10.7	8.3	15.1	9.7	20.6	5.3	18.3	18.3	6.7
PV●	1M	31.4	10.5	16.5	9.7	12.4	8.3	18.3	9.7	23.8	5.3	18.3	18.3	6.7
PV●	2M	34.6	14.0	19.5	13.0	15.5	8.3	20.6	10.1	26.1	5.3	18.7	18.7	7.1
PV●	3M	38.0	16.0	21.5	15.0	17.5	8.3	23.0	10.1	28.5	5.3	18.7	18.7	7.1
PV●	TM	40.3	17.9	24.5	16.7	19.8	11.0	24.6	10.6	30.1	7.9	18.2	18.2	7.6
PV●	4M	43.7	20.7	27.5	19.5	22.6	11.0	27.0	10.6	32.5	7.9	18.2	18.2	7.6
PV●	LM	47.1	23.9	30.5	22.7	25.8	11.0	29.4	10.6	34.9	7.9	18.2	18.2	7.6
PV●	5M	54.9	29.7	37.5	28.5	31.4	11.0	34.9	10.6	40.4	7.9	18.2	18.2	7.6

Part number example: PVN.1M.305.XLMT

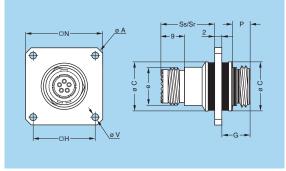
Panel cut-out (page 31).

**Note:** Ss = standard gender, Sr = reverse gender. The dimension «V» is the same as the PV $\bullet$  models without mold stop.

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# PVo Fixed socket with antivibration square flange, key (N) or keys (P, R, S, T, U, V, W and X) with MIL-DTL-38999L shell thread

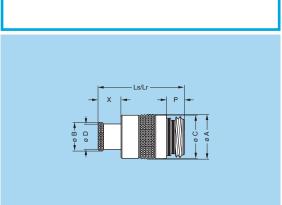
Refe	rence				Dir	nensi	ions (	mm)				
Model	Series	Α	С	е	G	Н	N	Р	Ss	Sr	٧	Code <sup>1)</sup>
PV●	1M	31.4	16.5	M12x1.0	8.3	18.3	23.8	5.3	17.2	17.2	3.3	Α
PV●	2M	34.6	19.5	M15x1.0	8.3	20.6	26.1	5.3	17.2	17.2	3.3	В
PV●	3M	38.0	21.5	M18x1.0	8.3	23.0	28.5	5.3	17.2	17.2	3.3	С
PV●	TM	40.3	24.5	M18x1.0	11.0	24.6	30.1	7.9	16.2	17.1	3.3	С
PV●	4M	43.7	27.5	M22x1.0	11.0	27.0	32.5	7.9	16.2	17.1	3.3	D
PV●	LM	47.1	30.5	M25x1.0	11.0	29.4	34.9	7.9	16.2	17.1	3.3	Е
PV●	5M	54.9	37.5	M31x1.0	11.0	34.9	40.4	7.9	16.2	17.1	3.3	G

Part number example: PVN.1M.305.XLMM

Panel cut-out (page 31).

**Note:** Ss = standard gender, Sr = reverse gender. <sup>1)</sup> MIL-DTL-38999L shell size code (backshell not supplied).



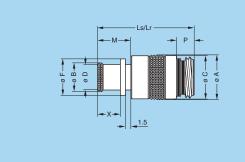


PMe Free socket, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip

Refe	rence			Din	nensi	ons (m	nm)		
Model	Series	Α	В	С	D	Ls	Lr	Р	Х
PM•	MM	11.1	6.4	10.7	5.6	21.4	21.4	3.7	5.8
PM●	OM	13.1	8.8	12.7	8.0	25.6	25.6	5.3	6.7
PM●	1M	14.6	10.5	14.2	9.7	25.6	25.6	5.3	6.7
PM●	2M	17.6	14.0	17.2	13.0	26.0	26.0	5.3	7.1
PM●	3M	19.6	16.0	19.2	15.0	26.0	26.0	5.3	7.1
PM●	TM	22.5	17.9	22.0	16.7	28.2	30.1	7.9	7.6
PM●	4M	25.0	20.7	24.5	19.5	28.2	30.1	7.9	7.6
PM●	LM	28.5	23.9	28.0	22.7	28.2	30.1	7.9	7.6
PM●	5M	34.0	29.7	33.5	28.5	28.2	30.1	7.9	7.6

**Part number example:** PMN.1M.305.XLM **Note:** Ls = standard gender, Lr = reverse gender





PMo Free socket, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and mold stop

Refe	rence				Din	nensio	ons (m	nm)			
Model	Series	А	В	С	D	F	Ls	Lr	М	Р	Х
PM●	MM	11.1	6.4	10.7	5.6	7.8	24.4	24.4	8.8	3.7	5.8
PM●	OM	13.1	8.8	12.7	8.0	10.7	28.6	28.6	9.7	5.3	6.7
PM●	1M	14.6	10.5	14.2	9.7	12.4	28.6	28.6	9.7	5.3	6.7
PM●	2M	17.6	14.0	17.2	13.0	15.5	29.0	29.0	10.1	5.3	7.1
PM●	ЗМ	19.6	16.0	19.2	15.0	17.5	29.0	29.0	10.1	5.3	7.1
PM●	TM	22.5	17.9	22.0	16.7	19.8	31.2	31.2	10.6	7.9	7.6
PM●	4M	25.0	20.7	24.5	19.5	22.6	31.2	31.2	10.6	7.9	7.6
PM●	LM	28.5	23.9	28.0	22.7	25.8	31.2	31.2	10.6	7.9	7.6
PM●	5M	34.0	29.7	33.5	28.5	31.4	31.2	31.2	10.6	7.9	7.6

Part number example: PMN.1M.305.XLMT

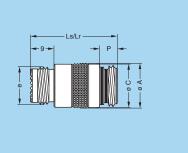
Note: Ls = standard gender, Lr = reverse gender

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# PMo Free socket, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and MIL-DTL-38999L shell thread

Refe	rence			Dimens	ions (	mm)		
Model	Series	Α	С	е	Ls	Lr	Р	Code <sup>1)</sup>
PM●	1M	14.6	14.2	M12x1.0	27.9	27.9	5.3	Α
PM●	2M	17.6	17.2	M15x1.0	27.9	27.9	5.3	В
PM●	ЗМ	19.6	19.2	M18x1.0	27.9	27.9	5.3	С
PM●	TM	22.5	22.0	M18x1.0	29.6	30.1	7.9	С
PM●	4M	25.0	24.5	M22x1.0	29.6	30.1	7.9	D
PM●	LM	28.5	28.0	M25x1.0	29.6	30.1	7.9	Е
PM●	5M	34.0	33.5	M31x1.0	29.6	30.1	7.9	G

Part number example: PMN.1M.305.XLMM

**Note:** Ls = standard gender, Lr = reverse gender.  $^{1)}$  MIL-DTL-38999L shell size code (backshell not supplied).



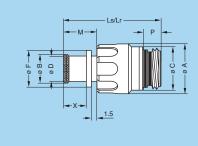
### Free socket, key (N) or keys (P, R, S, T, U, V, W and X) with arctic grip

Refe	rence		Dimensions (mm)										
Model	Series	Α	В	С	D	Ls	Lr	Р	Х				
PH●	MM	12.0	6.4	10.7	5.6	21.4	21.4	3.7	5.8				
PH●	OM	14.4	8.8	12.7	8.0	25.6	25.6	5.3	6.7				
PH●	1M	15.9	10.5	14.2	9.7	25.6	25.6	5.3	6.7				
PH●	2M	18.9	14.0	17.2	13.0	26.0	26.0	5.3	7.1				
PH●	3M	20.9	16.0	19.2	15.0	26.0	26.0	5.3	7.1				
PH●	TM	23.4	17.9	22.0	16.7	28.2	30.1	7.9	7.6				
PH●	4M	25.9	20.7	24.5	19.5	28.2	30.1	7.9	7.6				
PH●	LM	29.4	23.9	28.0	22.7	28.2	30.1	7.9	7.6				
PH●	5M	34.9	29.7	33.5	28.5	28.2	30.1	7.9	7.6				

Part number example: PHN.1M.305.XLM

Note: Ls = standard gender, Lr = reverse gender





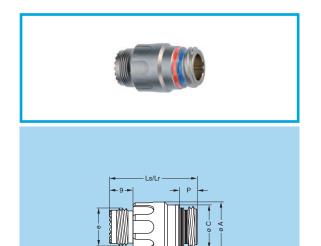
PHe Free socket, key (N) or keys (P, R, S, T, U, V, W and X) with arctic grip and mold stop

Refe	rence				Din	nensio	ons (m	nm)			
Model	Series	А	В	С	D	F	Ls	Lr	М	Р	Х
PH●	MM	12.0	6.4	10.7	5.6	7.8	24.4	24.4	8.8	3.7	5.8
PH●	OM	14.4	8.8	12.7	8.0	10.7	28.6	28.6	9.7	5.3	6.7
PH●	1M	15.9	10.5	14.2	9.7	12.4	28.6	28.6	9.7	5.3	6.7
PH●	2M	18.9	14.0	17.2	13.0	15.5	29.0	29.0	10.1	5.3	7.1
PH●	ЗМ	20.9	16.0	19.2	15.0	17.5	29.0	29.0	10.1	5.3	7.1
PH●	TM	23.4	17.9	22.0	16.7	19.8	31.2	31.2	10.6	7.9	7.6
PH●	4M	25.9	20.7	24.5	19.5	22.6	31.2	31.2	10.6	7.9	7.6
PH●	LM	29.4	23.9	28.0	22.7	25.8	31.2	31.2	10.6	7.9	7.6
PH●	5M	34.9	29.7	33.5	28.5	31.4	31.2	31.2	10.6	7.9	7.6

Part number example: PHN.1M.305.XLMT Note: Ls = standard gender, Lr = reverse gender

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# Free socket, key (N) or keys (P, R, S, T, U, V, W and X) with arctic grip and MIL-DTL-38999L shell thread

Refe	rence			Dimens	ions (	mm)		
Model	Series	Α	С	е	Ls	Lr	Р	Code <sup>1)</sup>
PH●	1M	15.9	14.2	M12x1.0	27.9	27.9	5.3	Α
PH●	2M	18.9	17.2	M15x1.0	27.9	27.9	5.3	В
PH●	3M	20.9	19.2	M18x1.0	27.9	27.9	5.3	С
PH●	TM	23.4	22.0	M18x1.0	29.6	30.1	7.9	С
PH●	4M	25.9	24.5	M22x1.0	29.6	30.1	7.9	D
PH●	LM	29.4	28.0	M25x1.0	29.6	30.1	7.9	Е
PH●	5M	34.9	33.5	M31x1.0	29.6	30.1	7.9	G

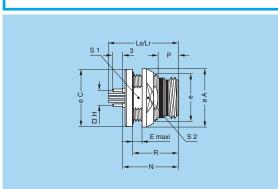
Part number example: PHN.1M.305.XLMM

Note: Ls = standard gender, Lr = reverse gender. 1) MIL-DTL-38999L shell size code (backshell not supplied).



### Watertight model (unmated)





# Fixed socket, nut fixing, key (N) or keys (P, R, S, T, U, V, W and X) for printed circuit, watertight (back panel mounting)

Refe	rence				[	Dimens	sions	(mm)					
Model	Series	Α	С	е	Е	Н	Ls	Lr	N	Р	R	S1	S2
HE●	MM	14	13.8	M10x0.50	4.0	5.08	20.4	20.4	15.3	3.7	10.5	9.0	11
HE●	OM	17	16.8	M13x0.75	5.0	5.08	20.8	21.0	16.8	5.3	13.8	11.5	14
HE●	1M	18	17.8	M14x1.00	5.0	7.62	20.8	21.0	16.8	5.3	13.8	12.5	16
HE●	2M	21	20.8	M17x1.00	5.0	8.89	20.8	21.0	16.8	5.3	13.8	15.5	18
HE●	ЗМ	23	22.8	M19x1.00	5.0	10.16	20.8	21.0	16.8	5.3	13.8	17.5	20
HE●	TM	27	25.8	M22x1.00	4.0	12.70	24.6	24.6	19.9	7.9	16.9	20.5	23
HE●	4M	29	27.8	M24x1.00	4.0	13.97	24.6	24.6	19.9	7.9	16.9	22.5	25
HE●	LM	33	31.8	M28x1.00	4.0	16.51	24.6	24.6	19.9	7.9	16.9	26.5	29
HE●	5M	38	36.8	M33x1.00	4.0	20.32	24.6	24.6	19.9	7.9	16.9	31.5	34

Part number example: HEN.1M.305.XLNP

Panel cut-out (page 31). PCB drilling pattern (page 32).

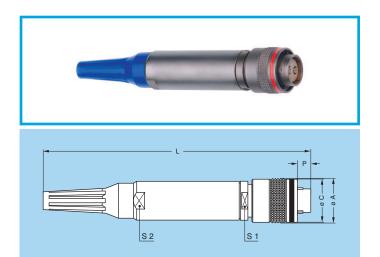
**Note:** Ls = standard gender, Lr = reverse gender. Operating temperature:  $-20^{\circ}$ C to  $+80^{\circ}$ C.

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### Fibre optic models



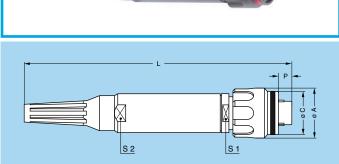
### FMo Straight plug, keys (N, S or W) with knurled grip

Part number		Dimensions (mm)									
	Α	С	L	Р	S1	S2					
FM•.2M.03A.XLZT••Z	17.6	17.2	100.6	3.9	14	14					
FM•.3M.95B.XLCT••Z	19.6	19.2	103.3	3.9	16	16					
FM•.5M.03W.XLZT••Z	34.0	33.5	148.4	3.4	29	29					

Contact part number (to be ordered separately): PSS.F7.12•.LCE23 (2M series). FFS.F7.12•.LCE23 (3M and 5M series).

Note: •• Cable adaptor defined upon request. The bend relief must be ordered separately (see page 29).



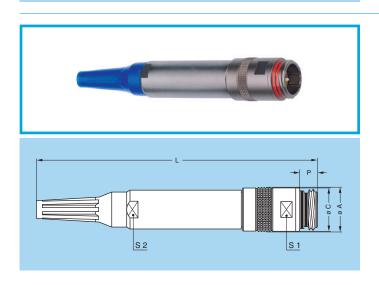


### FGo Straight plug, keys (N, S or W) with arctic grip

Part number		Dimensions (mm)								
	Α	С	L	Р	S1	S2				
FG•.2M.03A.XLZT••Z	18.9	17.2	100.6	3.9	14	14				
FG•.3M.95B.XLCT••Z	20.9	19.2	103.3	3.9	16	16				
FG•.5M.03W.XLZT••Z	34.9	33.5	148.4	3.4	29	29				

Contact part number (to be ordered separately): PSS.F7.12•.LCE23 (2M series). FFS.F7.12•.LCE23 (3M and 5M series).

Note: •• Cable adaptor defined upon request. The bend relief must be ordered separately (see page 29).



### PMo Free socket, keys (N, S or W) with knurled grip

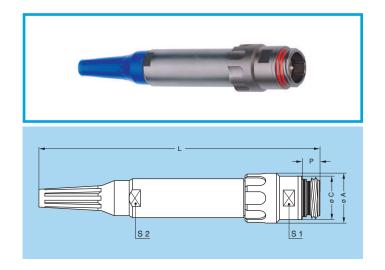
Part number	Dimensions (mm)									
Part number	Α	С	L	Р	S1	S2				
PM•.2M.03A.XLZT••Z	17.6	17.2	105.8	5.3	16	14				
PM•.3M.95B.XLMT••Z	19.6	19.2	113.3	5.3	18	16				
PM•.5M.03W.XLZT••Z	34.0	33.5	155.2	7.9	32	29				

Contact part number (to be ordered separately): FFS.F7.12•.LCL23 (2M series). PSS.F7.12•.LCL23 (3M and 5M series).

Note: •• Cable adaptor defined upon request.
The bend relief must be ordered separately (see page 29).

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### PHo Free socket, keys (S or W) with arctic grip

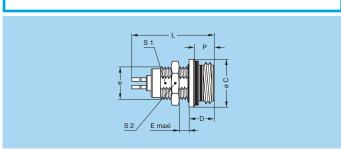
Part number		Dir	mensio	ns (m	m)	
Fart Humber	Α	С	L	Р	S1	S2
PH•.2M.03A.XLZT••Z	18.9	17.2	105.8	5.3	16	14
PH•.5M.03W.XLZT••Z	34.9	33.5	155.2	7.9	32	29

Contact part number (to be ordered separately): FFS.F7.12•.LCL23 (2M series). PSS.F7.12•.LCL23 (5M series).

Note: •• Cable adaptor defined upon request. The bend relief must be ordered separately (see page 29).



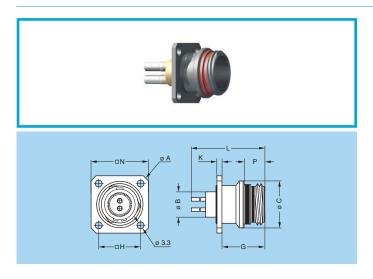
Fixed socket, nut fixing, key (N) or keys (P, R, S, T, U, V, W and X)



Part number	Dimensions (mm)										
Fart Humber	С	D	е	Ε	L	Р	S1	S2			
EG•.2M.03A.XLZ	17.2	6.8	M14x1.0	4.5	28.9	5.3	12.5	17.0			
EG•.5M.03W.XLZ	33.5	9.4	M30x1.0	4.0	30.8	7.9	28.5	36.0			

Panel cut-out (page 31).

**Contact part number** (to be ordered separately): FFS.F7.12•.LCE23 (2M series). PSS.F7.12•.LCE23 (5M series).



# **ED•** Fixed socket with square flange, keys (N, S or W)

Part number	Dimensions (mm)											
Fait number	Α	В	С	G	Н	K	L	Ν	Р			
ED•.2M.03A.XLZT	26.9	8.95	17.2	12.8	15.1	1.5	28.9	20.6	5.3			
ED•.3M.95B.XLM	29.0	10.95	19.2	12.8	16.6	1.5	32.2	22.1	5.3			
ED•.5M.03W.XLZT	43.7	22.90	33.5	14.5	27.0	2.0	30.8	32.5	7.9			

Panel cut-out (page 31).

Contact part number (to be ordered separately): FFS.F7.12•.LCE23 (2M series). PSS.F7.12•.LCE23 (3M and 5M series).

More information on F7 fibre optic contact in LEMO F7 catalog.

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### **Fibre Type**

The choice of the ferrule hole diameter is dependent upon the fibre cladding size. LEMO offers a range of ferrule hole diameters to suit the users' specific requirements.

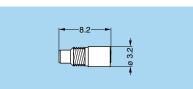
•	First choice alternative	<ul> <li>Special order alternative</li> </ul>
	First choice alternative	<ul> <li>Special order alternati</li> </ul>

Reference	ø Core/Cladding (µm)	Ferrule hole diameter (µm)	Note
125	9/125	125	•
126	50/125	126	•
128	62.5/125	128	0



### **Accessories**





### PSS Alignment device for F7 fibre optic contact



**Note:** Alignment device should be ordered as replacement item.



### **Tooling**

# J J



### **DCP** Set of flat spanners for collet nuts





### DCS F7 contact alignment device tool

Simple tool with two threaded end for installation/extraction of the F7 contact alignment device.

Part number
DCS.F7.035.PN



### **WST** Cleaning kit

Fibre optic cleaning kit of 2 cotton buds, 1 dry and 1 being soaked in Isopropyl Alcohol used for cleaning the fibre optic contacts.

Part number
WST.KI.125.34

### See also F7 tooling in the F7 fibre optic catalog.

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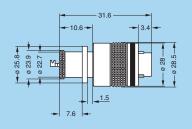


### **USB** models

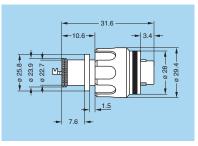
FMe.LM.U2A.XPAT Straight plug, key (W) or key (R) with knurled grip and mold stop

FGe.LM.U2A.XPAT Straight plug, key (W) or key (R) with arctic grip and mold stop









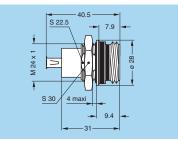
EG•.LM.U2A.XPP

Fixed socket, female to female, nut fixing, key (W) or key (R)

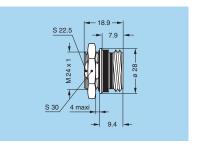
EGe.LM.U2A.XPL Fix

Fixed socket, nut fixing, key (W) or key (R)











### **Alignment Key**

### **Alignment Key and Polarized Keying System**

M series connector model part numbers are composed of three letters. The LAST LETTER indicates the keys corresponding to a particular contact type.

For example, straight plugs with N, P, R, U or W keys, are fitted with male contacts; whereas with S, T, V or X keys, plugs are fitted with female contacts. Sockets with N, P, R, U or W keys, are fitted with female contacts; whereas with S, T, V or X keys, sockets are fitted with male contacts.

	Front view of a socket	Model	Colour	Conta	ct type	Nb of		Ang	gles	
3M		M	code	Plug	Socket	keys	β		γ	
유	Y	••N	●●N blue				16	55°	3	0°
Σ		••P	yellow	male	female	3	15	60°	6	0°
		••U	green				13	80°	100°	
		••S	red	female	male	3	15	155°		0°
		••T	orange	lemale	male	3	13	35°	9	0°
	Front view of a socket	- Cold		Colour Contact type		Nb of		Ang	gles	
to 5M	0	Š	code	Plug	Socket	keys	α	β	γ	δ
	<u> </u>	••W	blue	mala	fomolo	5	95°	115°	35°	25°
Σ		••R	yellow	male	female	5	105°	115°	30°	20°
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	••X	red				100°	125°	40°	20°

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110°

120°

35°

female

orange





# **Insert configuration**

# Multipole

		(4 <u>0</u> 2)		(0)			ntact pe		18)1)	18)1)	
	Male crimp contacts for plug	Female crimp contacts for sockets	Reference	Number of contacts	ø A (mm)	Crimp	Print (straight) <sup>2)</sup>	AWG	Test voltage (kV rms) <sup>1)</sup> Contact-contact	Test voltage (kV rms) <sup>1)</sup> Contact-shell	Rated current (A)1)
ММ			303	3	0.5	•	•	28-30-32	1.15	0.95	3.0
			304	4	0.5	•	•	28-30-32	0.95	0.90	2.0
OM	*	8	302	2	0.9	•	•	20-22-24	1.45	1.00	10.0
			303	3	0.9	•	•	20-22-24	1.70	1.40	8.0
			304	4	0.7	•	•	22-24-26	1.35	0.90	7.0
			305	5	0.7	•	•	22-24-26	1.25	1.00	6.5
1M	*	8	302	2	1.3	•	•	16-18-20	1.55	1.10	19.0
			303	3	1.3	•	•	16-18-20	1.05	0.95	15.5
			305	5	0.9	•	•	20-22-24	1.30	1.30	9.0
			307	7	0.7	•	•	22-24-26	1.45	1.20	7.0
			308	8	0.7	•	•	22-24-26	1.30	1.10	5.0
2M			304	4	1.3	•	•	16-18-20	1.55	1.35	15.5
			308	8	0.9	•	•	20-22-24	1.95	1.10	10.0
			310	10	0.9	•	•	20-22-24	1.80	1.20	8.0
			312	12	0.7	•	•	22-24-26	1.65	1.15	7.0
			319	19	0.7	•	•	22-24-26	1.20	1.00	4.0
3M			312	12	0.9	•	•	20-22-24	1.40	1.25	6.0
			322	22	0.7	•	•	22-24-26	1.25	1.15	4.0
			330	30	0.7	•	•	22-24-26	1.10	1.00	3.5

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### Multipole

		(4©2)		, γ			ntact pe		ns)¹)	ns)1)	
	Male crimp contacts for plug	Female crimp contacts for sockets	Reference	Number of contacts	ø A (mm)	Crimp	Print (straight) <sup>2)</sup>	AWG	Test voltage (kV rms)1) Contact-contact	Test voltage (kV rms) <sup>1)</sup> Contact-shell	Rated current (A)1)
ТМ	To plug	IOI SOCRES	325	25	0.9	•	•	20-22-24	1.10	1.25	5.0
			332	32	0.7	•	•	22-24-26	1.25	1.20	3.5
			340	40	0.7	•	•	22-24-26	1.05	1.20	3.0
4M			340	40	0.7	•	•	22-24-26	1.20	1.35	3.5
			348	48	0.7	•	•	22-24-26	1.10	1.35	3.0
LM			355	55	0.9	•	•	20-22-24	1.65	1.95	3.5
			368	68	0.7	•	•	22-24-26	1.40	1.65	2.5
5M			366	66	0.9	•	•	20-22-24	1.60	1.70	3.0
			114	114	0.7	•	•	22-24-26	1.37	1.34	2.0

Note:  $^{1)}$  Test voltage according to IEC 60512-2 test 4a.  $^{2)}$  For EG•, EC•, ED•, HE• socket.

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### Mixed multipole

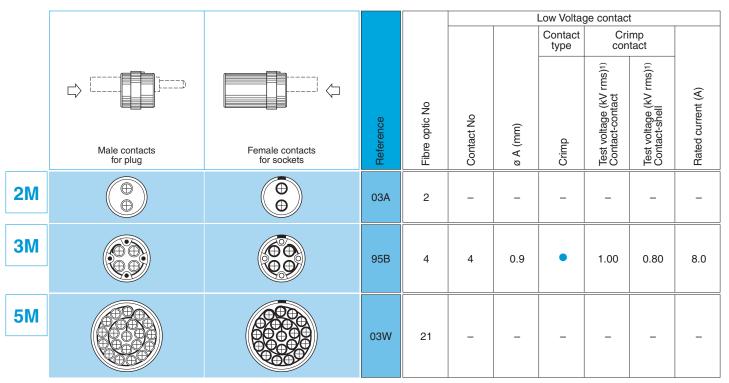
		4 2 1		ø			ntact pe		rms) <sup>1)</sup>	ns)1)	
			Reference	Number of contacts	(mm)	dı	t (straight) <sup>2)</sup>	(5	Test voltage (kV rn Contact-contact	Test voltage (kV rms) <sup>1)</sup> Contact-shell	Rated current (A)1)
	Male crimp contacts for plug	Female crimp contacts for sockets	Refe	Nun	Ø A	Crimp	Print	AWG	Test	Test	Rate
1M			304	2 2	0.7 1.3	•	•	22-24-26 16-18-20	1.20 1.45	1.30 2.00	11.0 18.5
2M			306	3	0.7 1.3	•	•	22-24-26 16-18-20	1.55 2.05	1.40 1.35	10.5 18.0
			308	6 2	0.7 1.3	•	•	22-24-26 16-18-20	1.95 1.75	1.40 1.60	7.0 23.0
			310	8 2	0.7 1.3	•	•	22-24-26 16-18-20	1.35 1.90	1.35 1.15	6.0 23.0

FGN.1M.304.XRCT2: straight plug with key (N), 1M series, multipole type with 4 mixed contacts (2 x Ø 0.7 mm and 2 x Ø 1.3 mm), outer shell with mold stop in anthracite nickel-plated aluminium alloy, PEEK insulator, male crimp contacts.

 $\textbf{FGN.2M.308.XRC6:} \ \text{straight plug with key (N), 2M series, multipole type with 8 mixed contacts (6 x \emptyset 0.7 mm and 2 x \emptyset 1.3 mm), outer shell in anthracite nickel-plated aluminium alloy, PEEK insulator, male crimp contacts.}$ 

Note: 1) Test voltage according to IEC 60512-2 test 4a. 2) For EG•, EC•, ED•, HE• socket.

### Multi fibre and Mixed fibre optic + LV

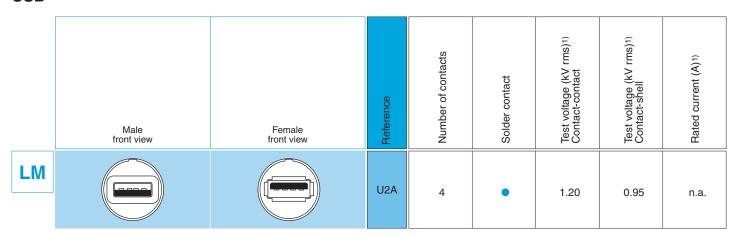


Note: 1) Test voltage according to IEC 60512-2 test 4a.

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### **USB**



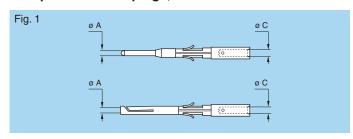


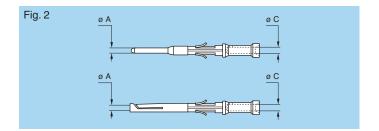
### **Contacts**

Reference	Contact type							
C Male crimp with standard crimp barrel (fig. 1)								
В	Male crimp with reduced crimp barrel (fig. 2)							
D	Male straight print							

	Reference	Contact type						
	М	Female crimp with standard crimp barrel (fig. 1)						
	Р	Female crimp with reduced crimp barrel (fig. 2)						
N Female straight print								

### Crimp contacts for plugs, free or fixed sockets





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### **Dimension of crimp barrels**

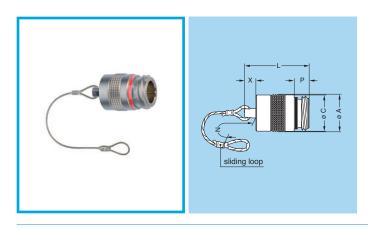
		Contac	t	Ref. con	tact type		Cond	luctor		Part n	umber
	øΑ	øС	Form	Male	Female	AV	VG	Section	n (mm²)		
	(mm)	(mm)	per fig.	iviale	remale	min.	max.	min.	max.	For male contacts	For female contacts
Σ	0.5	0.42	1	С	М	32	28	0.035	0.090	FGG.00.554.ZZC	EGG.00.654.ZZM
_	1.3	1.60	1	С	M	20	16	16 0.616 2.000 FGN.0M.565.ZZ		FGN.0M.565.ZZC	EGN.0M.665.ZZM
38	0.9	1.10	1	С	М	24	20	0.204	0.616	FGN.0M.560.ZZC	EGN.0M.660.ZZM
2	0.9	0.87	2	В	Р	26	22	0.128	0.382	FGN.0M.561.ZZC	EGN.0M.661.ZZM
Mo	0.7	0.87	1	С	M	26	22	0.128	0.382	FGN.0M.555.ZZC	EGN.0M.655.ZZM
0	0.7	0.44	2	В	Р	32	28	0.032	0.092	FGN.0M.556.ZZC	EGN.0M.656.ZZM
5	1.3	1.60	1	С	M	20	16	0.616	2.000	FGN.0M.565.ZZC	EGN.0M.665.ZZM
2W	0.9	1.10	1	С	М	24	20	0.204	0.616	FGN.0M.560.ZZC	EGW.TM.660.ZZM
2	0.9	0.87	2	В	Р	26	22	0.128	0.382	FGN.0M.561.ZZC	EGW.TM.661.ZZM
Σ	0.7	0.87	1	С	М	26	22	0.128	0.382	FGN.0M.555.ZZC	EGW.TM.655.ZZM
-	0.7	0.7 0.44 2		В	Р	32	28	0.032	0.092	FGN.0M.556.ZZC	EGW.TM.656.ZZM

Note: In order to satisfy crimp pull-test requirements to the IEC 60352-2 standard, the use of single strand cables should be avoided.

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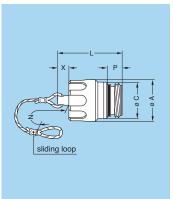
### **Accessories**



### **BMF** Blanking caps for plugs

Part number		Di	mensio	ons (mi	m)	
Fart Humber	Α	С	L	N	Р	Χ
BMF.MM.100.•AV	11.1	10.7	17.8	60.0	3.7	4.0
BMF.0M.100.•AV	13.1	12.7	24.6	85.0	5.3	6.0
BMF.1M.100.•AV	14.6	14.2	24.6	85.0	5.3	6.0
BMF.2M.100.•AV	17.6	17.2	24.6	85.0	5.3	6.0
BMF.3M.100.•AV	19.6	19.2	24.6	120.0	5.3	6.0
BMF.TM.100.•AV	22.5	22.0	31.1	120.0	7.9	10.0
BMF.4M.100.•AV	25.0	24.5	31.1	120.0	7.9	10.0
BMF.LM.100.•AV	28.5	28.0	31.1	150.0	7.9	10.0
BMF.5M.100.•AV	34.0	33.5	31.1	150.0	7.9	10.0

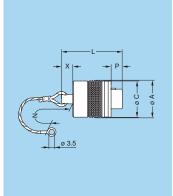




### **BGF** Blanking caps for plugs

Part number		Di	mensi	ons (m	m)	
raithumbei	Α	С	L	N	Р	Х
BGF.MM.100.•AV	12.0	10.7	17.8	60.0	3.7	4.0
BGF.0M.100.•AV	14.4	12.7	24.6	85.0	5.3	6.0
BGF.1M.100.•AV	15.9	14.2	24.6	85.0	5.3	6.0
BGF.2M.100.•AV	18.9	17.2	24.6	85.0	5.3	6.0
BGF.3M.100.•AV	20.9	19.2	24.6	120.0	5.3	6.0
BGF.TM.100.•AV	23.4	22.0	31.1	120.0	7.9	10.0
BGF.4M.100.•AV	25.9	24.5	31.1	120.0	7.9	10.0
BGF.LM.100.•AV	29.4	28.0	31.1	150.0	7.9	10.0
BGF.5M.100.•AV	34.9	33.5	31.1	150.0	7.9	10.0

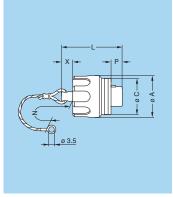




### **BME** Blanking caps for fixed sockets

Part number		Di	mensi	ons (m	m)	
Fart Humber	Α	С	L	N	Р	Х
BME.MM.200.•AZ	11.1	10.7	19.5	60.0	5.5	4.0
BME.0M.200.•AZ	13.1	12.7	23.4	85.0	3.9	6.0
BME.1M.200.•AZ	14.6	14.2	23.4	85.0	3.9	6.0
BME.2M.200.•AZ	17.6	17.2	23.4	85.0	3.9	6.0
BME.3M.200.•AZ	19.6	19.2	23.4	120.0	3.9	6.0
BME.TM.200.•AZ	22.5	22.0	31.0	120.0	3.4	10.0
BME.4M.200.•AZ	25.0	24.5	31.0	120.0	3.4	10.0
BME.LM.200.•AZ	28.5	28.0	31.0	150.0	3.4	10.0
BME.5M.200.•AZ	34.0	33.5	31.0	150.0	3.4	10.0



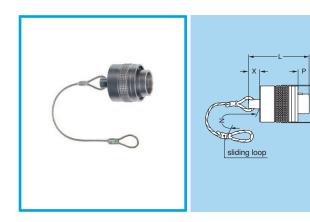


### **BGE** Blanking caps for fixed sockets

Part number		Di	mensi	ons (m	m)	
ran number	Α	С	L	N	Р	Х
BGE.MM.200.•AZ	12.0	10.7	19.5	60.0	5.5	4.0
BGE.0M.200.•AZ	14.4	12.7	23.4	85.0	3.9	6.0
BGE.1M.200.•AZ	15.9	14.2	23.4	85.0	3.9	6.0
BGE.2M.200.•AZ	18.9	17.2	23.4	85.0	3.9	6.0
BGE.3M.200.•AZ	20.9	19.2	23.4	120.0	3.9	6.0
BGE.TM.200.•AZ	23.4	22.0	31.0	120.0	3.4	10.0
BGE.4M.200.•AZ	25.9	24.5	31.0	120.0	3.4	10.0
BGE.LM.200.•AZ	29.4	28.0	31.0	150.0	3.4	10.0
BGE.5M.200.•AZ	34.9	33.5	31.0	150.0	3.4	10.0

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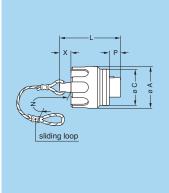




### **BMF** Blanking caps for free sockets

Part number		Di	mensi	ons (m	m)	
Fait Hullibel	Α	С	L	N	Р	Х
BMF.MM.200.•AZ	11.1	10.7	19.5	60.0	5.5	4.0
BMF.0M.200.•AZ	13.1	12.7	23.4	85.0	3.9	6.0
BMF.1M.200.•AZ	14.6	14.2	23.4	85.0	3.9	6.0
BMF.2M.200.•AZ	17.6	17.2	23.4	85.0	3.9	6.0
BMF.3M.200.•AZ	19.6	19.2	23.4	120.0	3.9	6.0
BMF.TM.200.•AZ	22.5	22.0	31.0	120.0	3.4	10.0
BMF.4M.200.•AZ	25.0	24.5	31.0	120.0	3.4	10.0
BMF.LM.200.•AZ	28.5	28.0	31.0	150.0	3.4	10.0
BMF.5M.200.•AZ	34.0	33.5	31.0	150.0	3.4	10.0

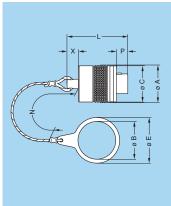




### **BGF** Blanking caps for free sockets

Part number		Di	mensi	ons (m	m)	
Fart number	Α	С	L	N	Р	Х
BGF.MM.200.•AZ	12.0	10.7	19.5	60.0	5.5	4.0
BGF.0M.200.•AZ	14.4	12.7	23.4	85.0	3.9	6.0
BGF.1M.200.•AZ	15.9	14.2	23.4	85.0	3.9	6.0
BGF.2M.200.•AZ	18.9	17.2	23.4	85.0	3.9	6.0
BGF.3M.200.•AZ	20.9	19.2	23.4	120.0	3.9	6.0
BGF.TM.200.•AZ	23.4	22.0	31.0	120.0	3.4	10.0
BGF.4M.200.•AZ	25.9	24.5	31.0	120.0	3.4	10.0
BGF.LM.200.•AZ	29.4	28.0	31.0	150.0	3.4	10.0
BGF.5M.200.•AZ	34.9	33.5	31.0	150.0	3.4	10.0

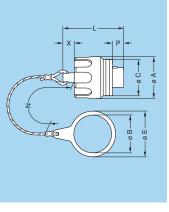




# BMK Blanking caps, large washer for EC•/PE•/HE• fixed sockets

Part number			Din	nensio	ns (mr	n)		
Part Humber	Α	В	С	Е	L	N	Р	Х
BMK.MM.200.•AZ	11.1	10.1	10.7	14.0	19.5	60.0	5.5	4.0
BMK.0M.200.•AZ	13.1	13.1	12.7	17.0	23.4	85.0	3.9	6.0
BMK.1M.200.•AZ	14.6	14.1	14.2	18.0	23.4	85.0	3.9	6.0
BMK.2M.200.•AZ	17.6	17.2	17.2	21.0	23.4	85.0	3.9	6.0
BMK.3M.200.•AZ	19.6	19.2	19.2	23.0	23.4	120.0	3.9	6.0
BMK.TM.200.•AZ	22.5	22.2	22.0	27.0	31.0	120.0	3.4	10.0
BMK.4M.200.•AZ	25.0	24.2	24.5	29.0	31.0	120.0	3.4	10.0
BMK.LM.200.•AZ	28.5	28.2	28.0	33.0	31.0	150.0	3.4	10.0
BMK.5M.200.•AZ	34.0	33.2	33.5	38.0	31.0	150.0	3.4	10.0
	BMK.0M.200.•AZ BMK.1M.200.•AZ BMK.2M.200.•AZ BMK.3M.200.•AZ BMK.TM.200.•AZ BMK.4M.200.•AZ BMK.LM.200.•AZ	BMK.MM.200.•AZ 11.1 BMK.0M.200.•AZ 13.1 BMK.1M.200.•AZ 14.6 BMK.2M.200.•AZ 17.6 BMK.3M.200.•AZ 19.6 BMK.TM.200.•AZ 22.5 BMK.4M.200.•AZ 25.0 BMK.LM.200.•AZ 28.5	BMK.MM.200.•AZ 11.1 10.1 BMK.0M.200.•AZ 13.1 13.1 BMK.1M.200.•AZ 14.6 14.1 BMK.2M.200.•AZ 17.6 17.2 BMK.3M.200.•AZ 19.6 19.2 BMK.TM.200.•AZ 22.5 22.2 BMK.4M.200.•AZ 25.0 24.2 BMK.LM.200.•AZ 28.5 28.2	BMK.MM.200.•AZ         11.1         10.1         10.7           BMK.0M.200.•AZ         13.1         13.1         12.7           BMK.1M.200.•AZ         14.6         14.1         14.2           BMK.2M.200.•AZ         17.6         17.2         17.2           BMK.3M.200.•AZ         19.6         19.2         19.2           BMK.TM.200.•AZ         22.5         22.2         22.0           BMK.4M.200.•AZ         25.0         24.2         24.5           BMK.LM.200.•AZ         28.5         28.2         28.0	BMK.MM.200.•AZ         11.1         10.1         10.7         14.0           BMK.0M.200.•AZ         13.1         13.1         12.7         17.0           BMK.1M.200.•AZ         14.6         14.1         14.2         18.0           BMK.2M.200.•AZ         17.6         17.2         17.2         21.0           BMK.3M.200.•AZ         19.6         19.2         19.2         23.0           BMK.TM.200.•AZ         22.5         22.2         22.0         27.0           BMK.4M.200.•AZ         25.0         24.2         24.5         29.0           BMK.LM.200.•AZ         28.5         28.2         28.0         33.0	BMK.MM.200.•AZ         11.1         10.1         10.7         14.0         19.5           BMK.0M.200.•AZ         13.1         13.1         12.7         17.0         23.4           BMK.1M.200.•AZ         14.6         14.1         14.2         18.0         23.4           BMK.2M.200.•AZ         17.6         17.2         17.2         21.0         23.4           BMK.3M.200.•AZ         19.6         19.2         19.2         23.0         23.4           BMK.TM.200.•AZ         22.5         22.2         22.0         27.0         31.0           BMK.4M.200.•AZ         28.5         28.2         28.0         33.0         31.0	BMK.MM.200.•AZ         11.1         10.1         10.7         14.0         19.5         60.0           BMK.0M.200.•AZ         13.1         13.1         12.7         17.0         23.4         85.0           BMK.1M.200.•AZ         14.6         14.1         14.2         18.0         23.4         85.0           BMK.2M.200.•AZ         17.6         17.2         17.2         21.0         23.4         85.0           BMK.3M.200.•AZ         19.6         19.2         19.2         23.0         23.4         120.0           BMK.TM.200.•AZ         22.5         22.2         22.0         27.0         31.0         120.0           BMK.4M.200.•AZ         25.0         24.2         24.5         29.0         31.0         120.0           BMK.LM.200.•AZ         28.5         28.2         28.0         33.0         31.0         150.0	BMK.MM.200.•AZ         11.1         10.1         10.7         14.0         19.5         60.0         5.5           BMK.0M.200.•AZ         13.1         13.1         12.7         17.0         23.4         85.0         3.9           BMK.1M.200.•AZ         14.6         14.1         14.2         18.0         23.4         85.0         3.9           BMK.2M.200.•AZ         17.6         17.2         17.2         21.0         23.4         85.0         3.9           BMK.3M.200.•AZ         19.6         19.2         19.2         23.0         23.4         120.0         3.9           BMK.TM.200.•AZ         22.5         22.2         22.0         27.0         31.0         120.0         3.4           BMK.4M.200.•AZ         25.0         24.2         24.5         29.0         31.0         120.0         3.4           BMK.LM.200.•AZ         28.5         28.2         28.0         33.0         31.0         150.0         3.4





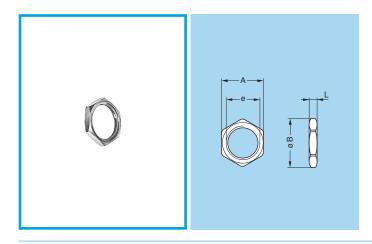
# BGK Blanking caps, large washer for EC•/PE•/HE• fixed sockets

Part number			Din	nensio	ns (mr	n)		
Fait Hullibel	Α	В	С	Е	L	N	Р	Х
BGK.MM.200.•AZ	12.0	10.1	10.7	14.0	19.5	60.0	5.5	4.0
BGK.0M.200.•AZ	14.4	13.1	12.7	17.0	23.4	85.0	3.9	6.0
BGK.1M.200.•AZ	15.9	14.1	14.2	18.0	23.4	85.0	3.9	6.0
BGK.2M.200.•AZ	18.9	17.2	17.2	21.0	23.4	85.0	3.9	6.0
BGK.3M.200.•AZ	20.9	19.2	19.2	23.0	23.4	120.0	3.9	6.0
BGK.TM.200.•AZ	23.4	22.2	22.0	27.0	31.0	120.0	3.4	10.0
BGK.4M.200.•AZ	25.9	24.2	24.5	29.0	31.0	120.0	3.4	10.0
BGK.LM.200.•AZ	29.4	28.2	28.0	33.0	31.0	150.0	3.4	10.0
BGK.5M.200.•AZ	34.9	33.2	33.5	38.0	31.0	150.0	3.4	10.0

Note: these caps are suitable for use with any alignment key configuration. The position «•» of the part number indicates the housing material. See page 4.

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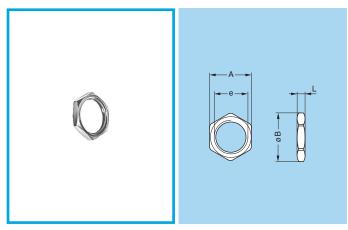




### **GEA** Hexagonal nuts for EC● model

Part number	Series	Dimensions (mm)				
Fait Hullibel	Selles	Α	В	е	L	
GEA.MM.241.RL	MM	12	13.5	M10x0.50	2.5	
GEA.0M.241.RL	OM	16	18.2	M13x0.75	2.5	
GEA.0E.240.RL	1M	17	19.2	M14x1.00	2.5	
GEA.2M.241.RL	2M	19	21.5	M17x1.00	3.0	
GEA.3M.241.RL	ЗМ	25	22.0	M19x1.00	3.0	
GEA.TM.241.RL	TM	25	28.0	M22x1.00	3.0	
GEA.4M.241.RL	4M	30	34.0	M24x1.00	3.0	
GEA.LM.241.RL	LM	32	36.0	M28x1.00	3.0	
GEA.5M.241.RL	5M	37	41.0	M33x1.00	3.0	

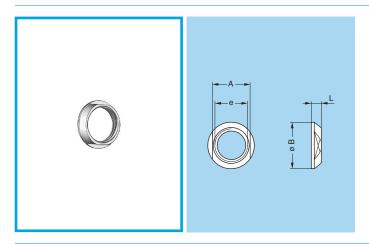
Material: Nickel-plated aluminium alloy (anthracite colour)



### **GEA** Hexagonal nuts for EG • model

Part number	Series		Dimer	nsions (mm)	
Fart Humber	Selles	Α	В	е	L
GEA.00.240.RL	MM	9	10.2	M7x0.50	2.0
GEA.0S.240.RL	OM	11	12.4	M9x0.60	2.0
GEA.1M.240.RL	1M	13	14.5	M11x1.00	2.5
GEA.0E.240.RL	2M	17	19.2	M14x1.00	2.5
GEA.1E.240.RL	ЗМ	19	21.5	M16x1.00	3.0
GEA.3S.240.RL	TM	22	25.0	M18x1.00	3.0
GEA.4M.240.RL	4M	25	28.0	M21x1.00	4.0
GEA.3E.240.RL	LM	30	34.0	M24x1.00	5.0
GEA.5M.240.RL	5M	36	40.5	M30x1.00	5.0

• Material: Nickel-plated aluminium alloy (anthracite colour)



### GEC Conical nut for models HE ●, EC ●, PE ●

Part number	Series	ı	Dimer	imensions (mm)			
Fart Humber	Selles	Α	В	е	L		
GEC.MM.240.RN	MM	11	14	M10x0.50	2.5		
GEC.0M.240.RN	OM	14	17	M13x0.75	3.2		
GEC.0E.240.RN	1M	16	18	M14x1.00	3.0		
GEC.2M.240.RN	2M	18	21	M17x1.00	3.2		
GEC.3M.240.RN	ЗМ	20	23	M19x1.00	3.2		
GEC.TM.240.RN	TM	23	27	M22x1.00	5.0		
GEC.4M.240.RN	4M	25	29	M24x1.00	5.0		
GEC.LM.240.RN	LM	29	33	M28x1.00	5.0		
GEC.5M.240.RN	5M	34	38	M33x1.00	5.0		

Material: Nickel-plated aluminium alloy (anthracite colour)

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### **FGN** M series constant force spring clips

A range of constant force spring clips are available for use with M Series connectors, which permits repair of cable terminations without having to discard any of the existing braid shield system. When used in conjunction with LEMO heatshrink boots, a fully sealed termination is achieved. An additional benefit of the constant force spring is that it provides excellent resistance to shock or vibration due to its self-tensioning properties.

Part number	Series	Braid grounding location diameter (mm)
FGN.0M.185.AZ	0M / 1M / 2M	8.0 / 9.7 / 13.0
FGN.3M.185.AZ	3M / TM	15.0 / 16.7
FGN.5M.185.AZ	4M / LM / 5M	19.5 / 22.7 / 28.5

# Straight boot BEFORE HEATING AFTER HEATING AFTER HEATING

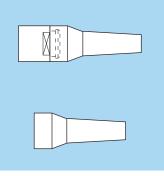
### Heatshrink boot

Constinu	Series	Part r	Note	cable ø	
Supplier	Series	Straight	Elbow 90°	ž	min. (mm)
LEMO	MM	GMA.10.290.DN	GHA.10.210.DN	2)	2.2
	0M-2M	202 A 111-25/86	222 A 111-25/86	1)	3.8
Raychem®	2M-4M	202 A 121-25/86	222 A 121-25/86	1)	5.3
	4M-5M	202 A 142-25/86	222 A 142-25/86	1)	7.4

### Note

- 1) modified elastomer resistant to fluids with hot melt sealant.
- 2) elastomer resistant to fluids. We recommend a thermosetting sealant with this type of boot.





Part number (Polyurethane)	Series	Part number (Silicone)
GMA.2B.0··.DG	2M	GMA.2B.0··.RG
GMA.3B.0••.DG	3M	GMA.3B.0··.RG
GMA.4B.0••.DG	5M	GMA.4B.0··.RG

### Note:

Please see unipole/multipole catalogue for bend relief dimensions. The last letter «G» of the part number indicates the grey colour of the bend relief. For ordering a bend relief with another colour, see table on the right and replace the letter «G» by the letter of the required colour.

### GMA Bend relief (for M series fibre optic model only)

A bend relief made from thermoplastic polyurethane elastomer can be fitted over LEMO plugs and sockets that are supplied with nut for fitting such bend relief.

An other bend relief has been designed for connectors used in applications at high temperature or requiring vapour sterilization. These bend reliefs are different from previous ones as for their material, a silicone elastomer which is noted for its retention of flexibility over a wide temperature range.

### Main characteristics

- Material: TPU (Thermoplastic Polyurethane)
- Temperature range in dry atmosphere: -40°C +80°C
- Material: Silicone elastomer VMQ
- Temperature range in dry atmosphere: -60°C +200°C
- Temperature range in water steam: +140°C

Ref.	Colour	
Α	blue	
В	white	
G	grey	

Ref.	Colour	
J	yellow	
M	brown	
N	black	

Ref.	Colour	
R	red	
S	orange	
V	green	

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## **Tooling**

### **DCE** Positioners for crimp contacts



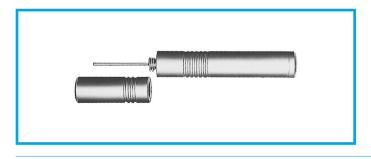
Female		
	01111	

These positioners are suitable for use with both manual and pneumatic crimping tools according to the MIL-C-22520/7-01 standard.

Contact		Positioners part number		
Contact ø	Size	For male contacts		
1.3	0M-5M	DCE.91.130.5MVC		
0.9	0M-5M	DCE.91.090.5MVC		
0.7	0M-5M	DCE.91.070.5MVC		
0.5 MM		DCE.91.050.0VC		

Contact		Positioners part number	
Contact ø	Size	For female contacts	
1.3	0M-5M	DCE.91.130.5MVM	
0.9	0M-3M	DCE.91.090.3MVM	
0.9	TM-5M	DCE.91.09T.5MVM	
0.7	0M-3M	DCE.91.070.3MVM	
0.7	TM-5M	DCE.91.07T.5MVM	
0.5	MM	DCE.91.050.0VM	

### **DCF** Extractors for crimp contacts



Contact Ø	Part number
1.3	DCF.93.131.4LT
0.9	DCF.93.090.4LT
0.7	DCF.93.070.4LT
0.5	DCF.91.050.2LT

**Note:** this model is used for male and female contacts.



### **DCV** Female contact insertion tool

Contact Ø	Part number
1.3	DCV.13.05M.LA
0.9	DCV.09.05M.LA
0.7	DCV.07.05M.LA





### **DCM** Front conical nut tightening tools

Part number		Series	Torque	For models	
Front conical nut	Torque wrench	Sel	(Nm)	1 of filodels	
DCM.65.120.AZ		MM	1.0	EC●, HE●, PE●	
DCM.65.140.AZ	DCM.65.000.4PA	OM	1.0	EC●, HE●, PE●	
DCM.65.160.AZ		1M	1.5	EC●, HE●, PE●	
DCM.65.180.AZ		2M	2.0	EC●, HE●, PE●	
DCM.65.200.AZ		ЗМ	2.5	EC●, HE●, PE●	
DCM.65.230.AZ		TM	4.0	EC●, HE●, PE●	
DCM.65.250.AZ	DCM.65.040.8PA	4M	5.0	EC●, HE●, PE●	
DCM.65.290.AZ		LM	6.5	EC●, HE●, PE●	
DCM.65.340.AZ		5M	8.0	EC●, HE●, PE●	

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### **DPC** Manual crimping tool

Part number
DPC.91.701.V

According to specification MIL-C-22520/7-01. For LEMO contacts ø 0.5-0.7-0.9-1.3 mm



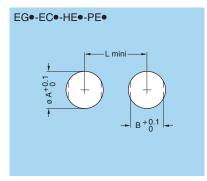
### **Banding tool**

	Part number					
	GLEN-AIR® TIE-DEX® AXON®					
Banding tool	600-061	A30199	ACDBS100			
Tie wrap	600-057 A31189 AXCL0Z					

**Note:** the banding tool is to be used with screened cables to ensure a good ground contact.

### **Panel Cut-Out**

### **Cut-outs**

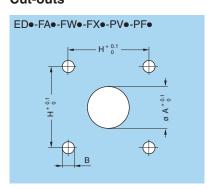


						-
Series	EG●			EC●/HE●/PE●		
	øΑ	В	L	øΑ	В	L
MM	7.1	6.4	12.5	10.1	9.1	16.0
OM	9.1	8.3	14.5	13.1	11.6	20.0
1M	11.1	9.6	17.2	14.1	12.6	21.0
2M	14.1	12.6	20.5	17.1	15.6	24.0
ЗМ	16.1	14.6	23.0	19.1	17.6	27.0
TM	18.1	16.6	27.0	22.1	20.6	31.5
4M	21.1	19.6	30.0	24.1	22.6	35.5
LM	24.1	22.6	32.0	28.1	26.6	36.5
5M	30.1	28.6	41.0	33.1	31.6	41.0

### Mounting nut torque (on panel)

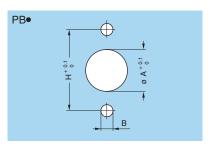
Series	Torque (Nm)
MM	1.0
OM	1.0
1M	1.5
2M	2.0
ЗМ	2.5
TM	4.0
4M	5.0
LM	6.5
5M	8.0

### **Cut-outs**



Series	ED●		FA●/FW●/FX●		PV●		PF●					
	øΑ	В	Н	øΑ	В	Н	øΑ	В	Н	øΑ	В	Н
MM	5.0	M2.5	9.5	9.6	M2.5	12.0	11.8	M2.5	12.0	7.9	M2.5	9.5
OM	5.1	M2.5	11.0	12.3	M2.5	15.1	15.0	M2.5	15.1	10.8	M2.5	11.0
1M	6.1	M3.0	12.9	13.8	M3.0	18.3	17.0	M3.0	18.3	12.5	M3.0	12.9
2M	9.1	M3.0	15.1	16.8	M3.0	20.6	20.0	M3.0	20.6	15.6	M3.0	15.1
3M	11.1	M3.0	16.6	18.8	M3.0	20.6	22.0	M3.0	23.0	18.1	M3.0	16.6
TM	12.5	M3.0	18.3	21.6	M3.0	23.0	25.0	M3.0	24.6	19.9	M3.0	18.3
4M	14.1	M3.0	20.6	24.1	M3.0	24.6	28.0	M3.0	27.0	22.7	M3.0	20.6
LM	18.1	M3.0	23.0	27.6	M3.0	27.0	31.0	M3.0	29.4	25.9	M3.0	23.0
5M	23.2	M3.0	27.0	33.1	M3.0	29.4	38.0	M3.0	34.9	33.1	M3.0	29.4

### **Cut-outs**



Series	PB●					
Selles	øΑ	В	Н			
MM	11.8	M2.5	16.2			
OM	15.0	M3.0	21.4			
1M	17.0	M3.0	23.4			
2M	20.0	M3.0	26.4			
ЗМ	22.0	M3.0	29.0			

Series	PB●					
Jenes	øΑ	В	Н			
TM	25.0	M3.0	32.5			
4M	28.0	M3.0	35.0			
LM	31.0	M3.0	38.0			
5M	38.0	M3.0	45.0			

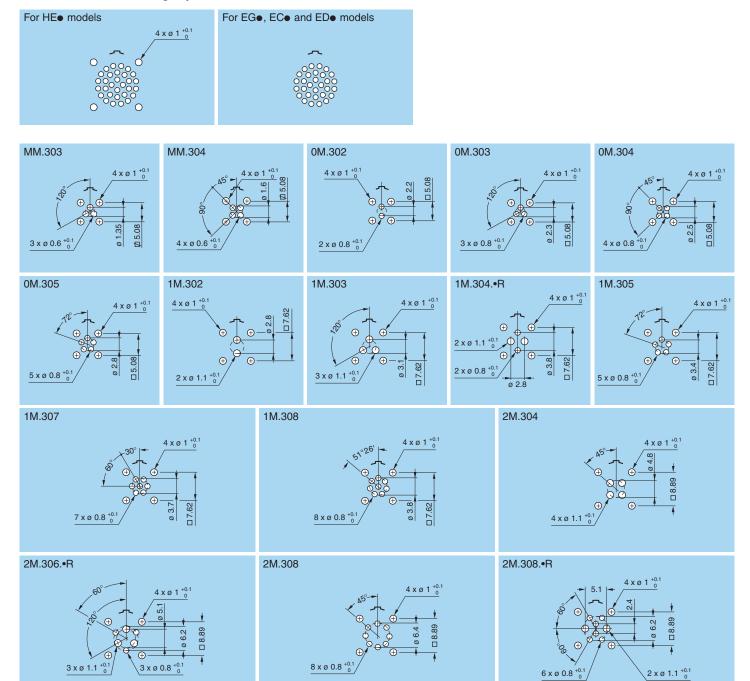
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2M.310

# PCB drilling pattern

### Fixed socket with straight print contact



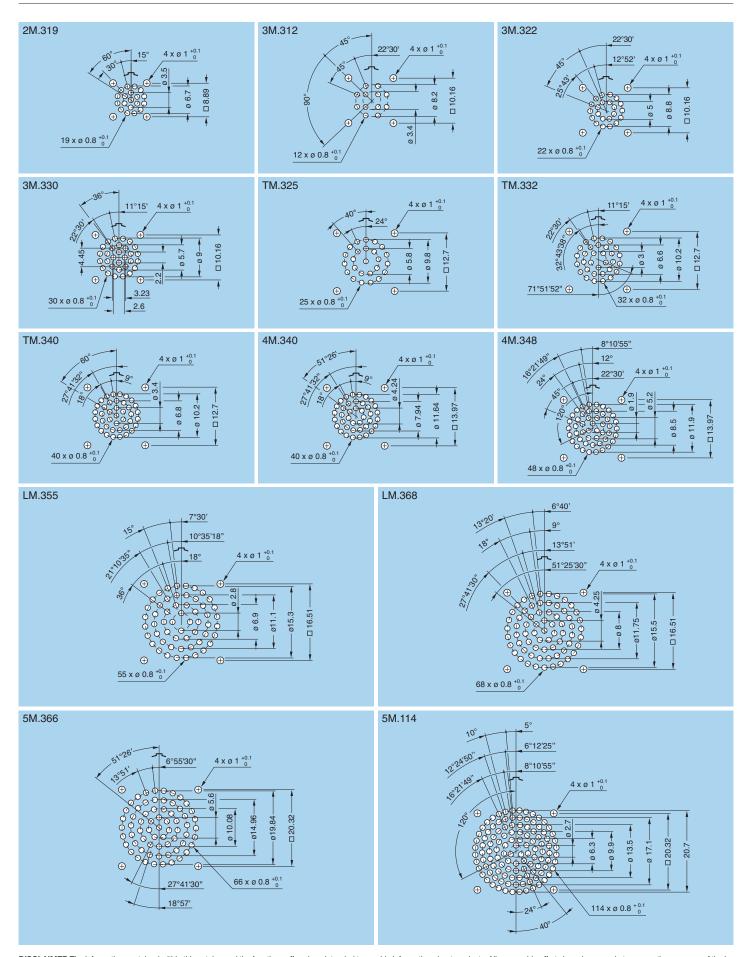


2M.312

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2M.310.•R

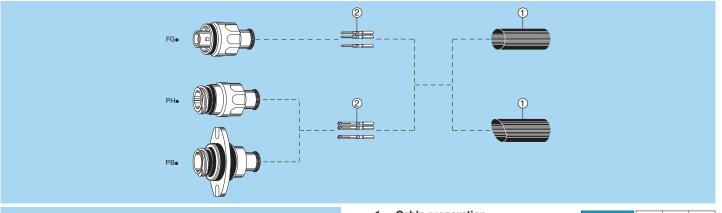


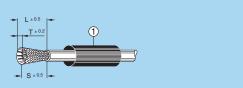


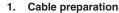
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### Assembly instructions for plugs and sockets



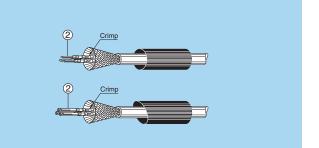




First place the heatshrink boot ① over the cable. Strip the cable according to dimensions of the table, then widen the shield.

Series	L	S	Т	
MM	14	9	3.0	
OM to 5M	20	15	3.5	

Note: dimensions are in mm.

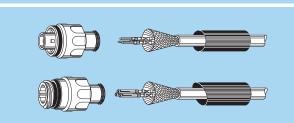


### Cable termination

2.1 With shielded cables, widen and pull the shield all the way to the back. Fix the appropriate positioner onto the crimping tool and set the selector to the number corresponding to the AWG of the conductor used as indicated on the positioner label

Fit the conductor into the contact ②; make sure it is visible through the contact's inspection hole.

Slide the conductor-contact assembly into the open crimping tool; make sure that the contact is pushed fully into the positioner. Close the tool. Remove from crimping tool and check that conductor is secure in contact and shows in inspection hole.

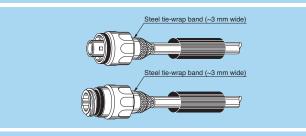


**2.2** Arrange the conductor-contact assemblies according to the markings,

into the rear cable seal.

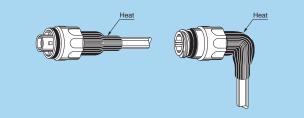
Push them deeply into the insulator, using tweezers if necessary; check that all the contacts are correctly located in the insulator: 1) by verifying the alignment of the contacts at the front of the insulator and by gently pulling on each conductor.

Verification should also be made using the appropriate retention testing tool.



2.3 Bring the shield around the rear of connector.

Secure it with a band-it tie-wrap (not furnished) to fix the shield in place. Cut off the possible shield surplus.

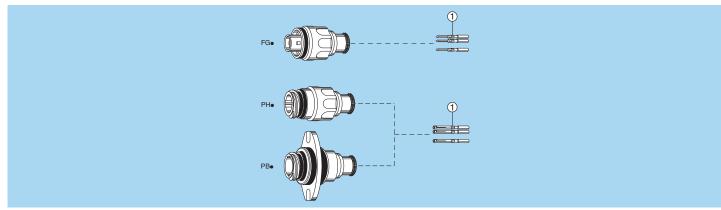


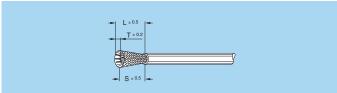
2.4 Put the heatshrink boot in place and heat gently until it retracts.

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### Assembly instructions for plugs and sockets (with optional mold stop)



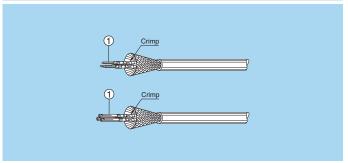


### Cable preparation

Strip the cable according to dimensions of the table, then widen the shield.

Series		L	S	Т
MM		14	9	3.0
0M to 5N	Л	20	15	3.5

Note: dimensions are in mm.

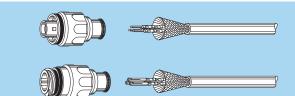


### **Cable termination**

2.1 With shielded cables, widen and pull the shield all the way to the back. Fix the appropriate positioner onto the crimping tool and set the selector to the number corresponding to the AWG of the conductor used as indicated on the positioner label

Fit the conductor into the contact ①; make sure it is visible through the contact's inspection hole.

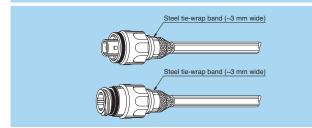
Slide the conductor-contact assembly into the open crimping tool; make sure that the contact is pushed fully into the positioner. Close the tool. Remove from crimping tool and check that conductor is secure in contact and shows in inspection hole.



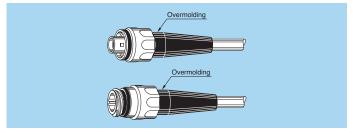
2.2 Arrange the conductor-contact assemblies according to the markings, into the rear cable seal.

Push them deeply into the insulator, using tweezers if necessary; check that all the contacts are correctly located in the insulator: 1) by verifying the alignment of the contacts at the front of the insulator and 2) by gently pulling on each conductor.
Verification should also be made using the appropriate retention tes-

ting tool.



2.3 Bring the shield around the rear of connector until the mold stop. Secure it with a band-it tie-wrap (not furnished) to fix the shield in place. Cut off the possible shield surplus.



2.4 Custom overmold cable assembly.

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### **Product safety notice**

PLEASE READ AND FOLLOW ALL INSTUCTIONS CAREFULLY AND CONSULT ALL RELEVENT 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

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

CE marking ( means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives.

CE marking ( applies to complete products or equipment, but not 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.

Data subject to change

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