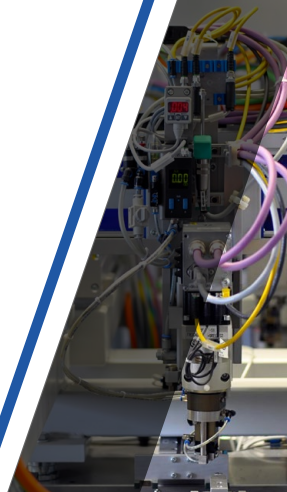




Manufacturers of High Quality Connectors and Accessories

LMF AND LMG CONNECTORS

Threaded coupling circular connectors designed for use in exposed environments.





Contents

Introduction	4
General information	
LMF and LMG general information	5
Insert Orientations	6
Typical Applications	6
How to use LMF and LMG catalogue	6
LMF and LMG ordering information	7
LMF range information	
Characteristics	8

Shell styles (aluminium) _ _ _ _ _	9
Shell styles (brass) _ _ _ _ _	10
Mating combinations _ _ _ _ _	11

LMG range information

Characteristics _ _ _ _ _	12
Shell styles (aluminium) _ _ _ _ _	13
Shell styles (brass) _ _ _ _ _	14
Mating combinations _ _ _ _ _	15

LMF and LMG range connectors _ _ _ _ _	16-35
--	-------

LMF and LMG dimensions and panel piercing details

LMF and LMG dimensions (aluminium) _ _ _ _ _	36, 37
LMF and LMG panel piercing details (aluminium) _ _ _ _ _	38
LMF and LMG dimensions (brass) _ _ _ _ _	39-42
LMF and LMG panel piercing details (brass) _ _ _ _ _	43, 44

LMF and LMG accessories

Application of cable entry fittings _ _ _ _ _	46
Ordering information _ _ _ _ _	47
Outlet accessory sets _ _ _ _ _	48-50
Outlet nuts and mounting kits _ _ _ _ _	51
Protective caps for aluminium range _ _ _ _ _	52, 53
Protective caps for brass range (brass) _ _ _ _ _	54, 55
Protective caps for brass range (polythene) _ _ _ _ _	56, 57
Conduit adaptors _ _ _ _ _	58
Assembly tooling _ _ _ _ _	59
Wiring instructions _ _ _ _ _	60-63
Product safety information _ _ _ _ _	64

Lodge Group

Established in 1976, Weald Electronics is part of the privately-owned Lodge Group which includes the connector distributor FC Lane Electronics and its Autosport Division, Lane Motorsport.



Lodge Group Headquarters

Weald Electronics is predominantly known for its comprehensive selection of circular bayonet and screw coupling connectors, and two-part PCB sub-miniature plastic-bodied circular connectors. Weald also specialises in short run, application specific, special and obsolete connector and cable developments.

To complete your interconnection solution, Weald manufactures protective caps and backshells for MIL-DTL-38999 and 26482 applications as well as protective caps, nut plates and gaskets for use right across motorsport.

With design, manufacturing and test facilities at its Slinfold Lodge HQ, Weald Electronics is able to tailor a connector solution to exactly meet a customer's specific requirement on surprisingly short lead times. Standard products are normally available next day.

Products from Weald Electronics Ltd are available from FC Lane Electronics Ltd.

t: +44 (0) 1403 790 661

e: sales@fclane.com

w: fclane.com

General Range Information

LMF and LMG Connectors have 1 to 37 contacts, housed in a range of shell styles, within 3 shell sizes:

- Shell Size 1 – Small
- Shell Size 2 – Medium
- Shell Size 3 – Large

There are two types within these connector ranges:

- Aluminium with fine thread coupling, suitable for light-weight use
- Brass with coarse thread coupling, suitable for more rugged applications

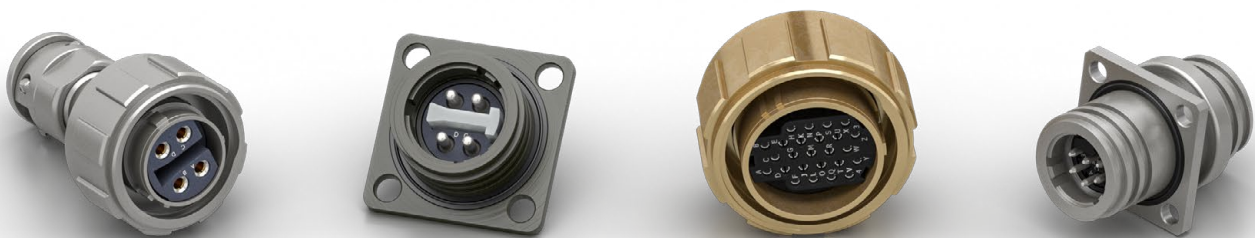
The LMF Range, formerly known as MK4, is the forerunner of these ranges, and has a temperature category of -40 °C to +85 °C, with a limited environmental capability. Additional to the standard range of shell styles are Bulkhead Connectors.

⚠ Thermocouple connectors are available with alumel and chromel / brass and constantan contacts. For details please contact local Sales Office.

The LMG Range, formerly MK7 (Patt. 104), is an update on the LMF range and has a more comprehensive environmental performance. Standard inserts are polychloroprene and the temperature range is -55 °C to +100 °C. For more demanding applications the fluorinated silicone rubber may be selected for insulators and the temperature range extends to -55 °C to +150 °C. LMG range does not include Bulkhead or Concentric style connectors.

The full range of accessories outlined in the accessories section can be used on these connector ranges. Aluminium accessories can be used on brass connectors but in certain hostile environments, e.g. Mines and Petrochemical areas, the use of aluminium is undesirable, therefore, care must be taken when ordering.

⚠ Should the occasion demand, the LMF and LMG connectors are intermateable within their respective styles and types. In this instance performance will be controlled by LMF capability.



Insert Orientations

A feature of LMF and LMG plugs and sockets is that the internal moulding carrying the contacts may be located in any one of six radial positions relative to the major keyway in the outer shell (see diagrams at the side of each group, pages 16 to 35). This facility eliminates the possibility of mismatching adjacent plugs and sockets of the same contact arrangement. The sixth position is known as neutral (shown in all diagrams as orientation position 0). Unless otherwise stated when ordering, all plugs and sockets will be supplied in the neutral position. Orientated units are identified by replacing the last digit of the part number of the neutral unit with a position number. The last digit for neutral units is always 0. Only orientations of the same suffix number can be mated together.

Typical Applications

The LMF and LMG connectors are suitable for cable to panel or cable to cable connections in exposed environments. The aluminium, fine thread version is for lightweight use, whereas the brass, coarse thread version is used in heavy duty applications.

How to Use LMF and LMG Catalogue

The sealing efficiency of outlets used with LMF and LMG connectors is entirely dependent upon the selection of the correct sequence and size of outlet ancillary fittings applicable to a particular type and size of cable.

1. Select relevant connector from catalogue pages 16-35, using of ordering information from page 7.
2. Select the appropriate accessory set to suit connector material, plating, shell size, and cable type and diameter from catalogue pages 48-50, using the ordering information from page 7.
3. For recommended wiring methods see catalogue pages 60-63.
4. For protective caps see catalogue pages 52-57.

 All dimensions with the exception of imperial threads are in millimetres and are nominal, they are derived from original Imperial dimensions.

LMF Range Ordering Information

Part no example

LMF / 1 / 40020 / 3 2 0

Range prefix

Connector assembly designation

5 digit number specific for each connector - refer to pages 16 - 33

Shell finish/plating

- 1** – Cadmium olive drab
- 3** – Clean finish (non-RoHS compliant)*
- 4** – Electroless nickel
- 5** – Cadmium passivated **
- 8** – Zinc cobalt black
- H** – Zinc cobalt passivated
- J** – Zinc cobalt olive drab
- Z** – Clean finish (RoHS compliant)

For other variants please contact local Sales Office

Insert orientation

- 0** – Position Normal
- 1** – Position 1
- 2** – Position 2
- 3** – Position 3
- 4** – Position 4
- 5** – Position 5

Contact finish/plating

- 1** – Gold plated 0.375 microns gold
- 2** – Silver plated (standard finish)
- 3** – Clean finish (unplated)
- 4** – Gold plated 1.35 microns gold
- 5** – Gold plated 5.00 microns gold



* – Standard finish for Aluminium version

** – Standard finish for Brass version

LMG Range Ordering Information

Part no example

LMG / 1 / 07023 / 2 2 0

Range prefix

Connector assembly designation

5 digit number specific for each connector - refer to pages 16 - 35

Shell finish/plating and moulding variant (if non-standard)

- 1** – Cadmium olive drab and silicone moulding
- 2** – Cadmium olive drab ***
- 3** – Cadmium olive drab and fluorinated moulding (high temp.)
- 7** – Clean finish (RoHS compliant)
- B** – Zinc cobalt olive drab (RoHS compliant)
- N** – Electroless nickel

For other variants please contact local Sales Office

Insert orientation

- 0** – Position Normal
- 1** – Position 1
- 2** – Position 2
- 3** – Position 3
- 4** – Position 4
- 5** – Position 5

Contact finish/plating

- 1** – Flash gold plated
- 2** – Silver plated (standard finish)
- 3** – Clean finish (unplated)
- 4** – Gold plated 1.35 microns gold
- 5** – Gold plated 5.00 microns gold



*** – Standard finish for both materials

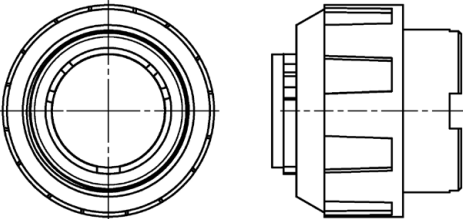
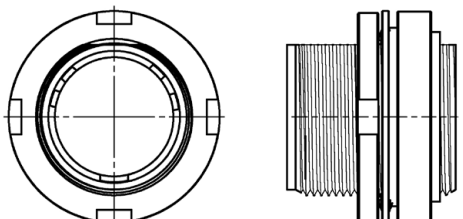
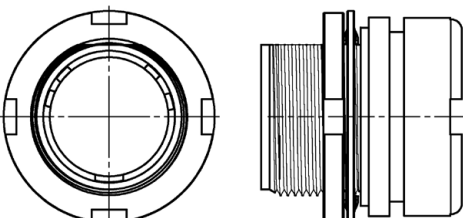
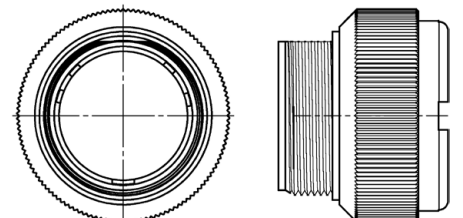
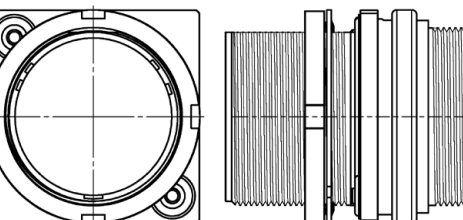
LMF Range Characteristics - Aluminium Version (Fine Thread) Connectors

Temperature range	-40° to +85°C					
Maximum altitude	20117 metres					
Number of contacts	2, 3, 4, 5, 6, 9, 12, 13, 18, 25					
Maximum current rating per individual contact at 70°C	5-60 amps dependent on contact size					
Contact finish	Silver plated (standard)					
Contact solderbucket	Rating	5 amps	12 amps	19 amps	35 amps	60 amps
	Inside dia.	1.50 mm	2.00 mm	2.75 mm	3.70 mm	5.00 mm
Working voltage DC or AC peak	250 volts at sea level (normal contacts) 1500 and 2500 volts (high voltage contacts)					
Polarization	By housing (shell) keys and keyways and by insert orientation					
Dielectric material	Bakelite					
Dielectric construction	Sandwich					
Sealing	Free connectors - environmentally resistant Fixed connectors - barrier and panel sealed Max leakage 1 cc/hr at pressure differential of 1 bar					
Housing material	Aluminium alloy					

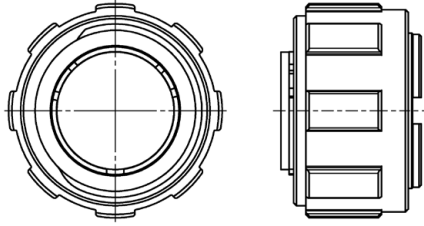
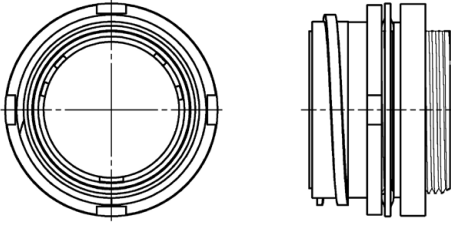
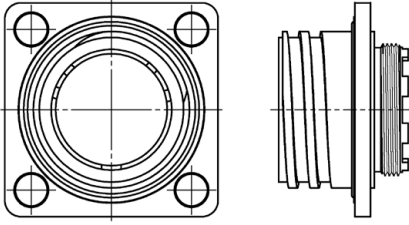
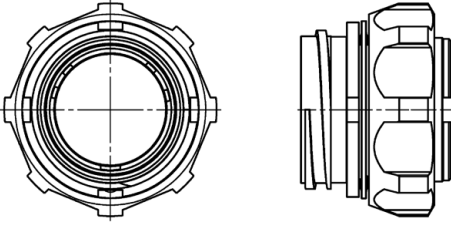
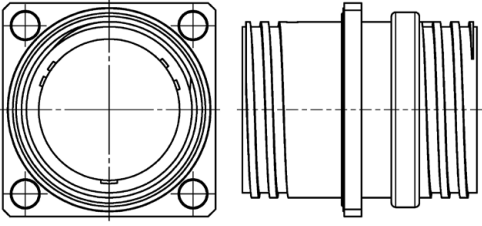
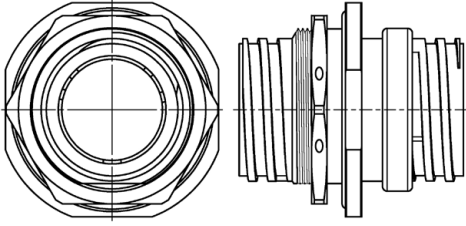
LMF Range Characteristics - Brass Version (Coarse Thread) Connectors

Temperature range	-40° to +85°C					
Maximum altitude	8474 metres					
Number of contacts	2, 3, 4, 5, 6, 9, 12, 13, 18, 25					
Maximum current rating per individual contact at 70°C	5-60 amps dependent on contact size					
Contact finish	Silver plated (standard)					
Contact solderbucket	Rating	5 amps	12 amps	19 amps	35 amps	60 amps
	Inside dia.	1.50 mm	2.00 mm	2.75 mm	3.70 mm	5.00 mm
Working voltage DC or AC peak	250 volts at sea level (normal contacts) 1500 and 2500 volts (high voltage contacts)					
Polarization	By housing (shell) keys and keyways and by insert orientation					
Dielectric material	Bakelite					
Dielectric construction	Sandwich					
Sealing	Free connectors - environmentally resistant Fixed connectors - barrier and panel sealed Max leakage 1 cc/hr at pressure differential of 1 bar					
Housing material	Brass					

LMF Range Shell Styles - Aluminium Connectors With Fine Thread

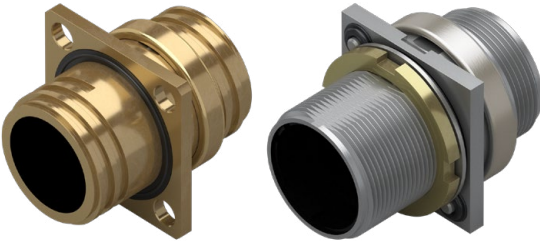
Free unit A free plug or socket is wired to a cable as a means of connecting the cable to mating components. Outlet nuts are supplied with these items. See page 36			Mates with Fixed unit Free coupler Bulkhead unit
Fixed unit A fixed plug or socket - for single hole mounting - with no facility for the use of cable fittings. See page 37			Mates with Free unit
Fixed unit with outlet nut A fixed plug or socket - single hole mounting with the facility for the use of cable fittings. See page 37			Mates with Free unit
Free coupler unit A free coupler plug or socket is wired to a cable as a means of connecting two free cables. See page 36			Mates with Free unit
Bulkhead connector A climatic proof pressurised bulkhead connector is used to permit a complete break in a cable passing through a bulkhead. It has male contacts one end and female contacts the other. The bulkhead plug/socket has the plug moulding on the flange side of the bulkhead; the socket/plug has the socket moulding on the flange side of the bulkhead. See page 37			Mates with Free unit

LMF Range Shell Styles - Brass Connectors With Coarse Thread

Free unit A free plug or socket is wired to a cable as a means of connecting the cable to mating components. Outlet nuts are supplied with these items. See page 39			Mates with Fixed unit Free coupler Bulkhead unit
Fixed unit (round flange) A fixed plug or socket - for single hole mounting - with no facility for the use of cable fittings. Mates with free plug or socket only. See page 41			Mates with Free unit
Fixed unit (square flange) A fixed plug or socket - four corner hole mounting with the facility for the use of cable fittings. See page 42			Mates with Free unit
Free coupler unit A free coupler plug or socket is wired to a cable as a means of connecting two free cables. See page 39			Mates with Free unit
Bulkhead connector A climatic proof pressurised bulkhead connector is used to permit a complete break in a cable passing through a bulkhead. It has male contacts one end and female contacts the other. The bulkhead plug/socket has the plug moulding on the flange side of the bulkhead; the socket/plug has the socket moulding on the flange side of the bulkhead. See page 40			Mates with Free unit
Bulkhead connector for single hole mounting* Special version of bulkhead connector with a single fixing hole, secured in place by a specially designed jam nut. See page 40			Mates with Free unit

* - Available to special order. For more details please contact local Sales Office.

LMF Range Mating Combinations

Fixed square flange (Brass version only)	
Fixed round flange (with and without outlet nut)	
Free coupler	
Bulkhead unit	

 A **fixed plug** connector will only mate with a **free socket** connector and a **fixed socket** connector will only mate with a **free plug** connector.

The choice of plug or socket contact is normally determined by specifying the **socket** contact on the power or source side of the connection and the plug contact on the load side of the connection.

Free unit	
	

LMF Contact Arrangements

All LMF connectors can be supplied with male and female contacts/mouldings and can be mated in combinations as shown above. The complete range of LMF Plugs and Sockets is catalogued on pages 16 to 33 in order of number of contacts.

Above each group are shown the plug pin arrangement, the contact coding and moulding characteristics of the mating face of a plug. All coding of sockets is reversed, i.e. a mirror image of the plug coding.

LMG Range Characteristics - Aluminium Version (Fine Thread) Connectors

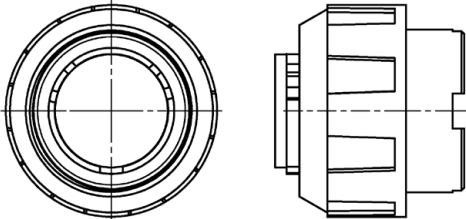
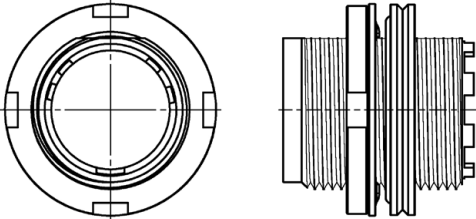
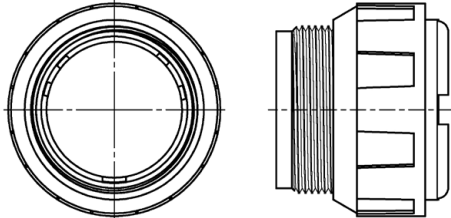
Temperature range	-55° to +100°C (-55° to +150°C for high temperature version)*						
Maximum altitude	20117 metres						
Number of contacts	2, 3, 4, 5, 6, 9, 12, 13, 18, 25, 26						
Maximum current rating per individual contact at 70°C	3-60 amps dependent on contact size						
Contact finish	Silver plated (standard)						
Contact solderbucket	Rating	3 amp	5 amp	12 amp	19 amp	35 amp	60 amp
	Inside dia.	1.05 mm	1.50 mm	2.00 mm	2.75 mm	3.70 mm	5.00 mm
Working voltage DC or AC peak	500 volts at sea level (normal contacts) 1500 and 2500 volts (high voltage contacts)						
Polarization	By housing (shell) keys and keyways and by insert orientation						
Dielectric material	Polychloroprene (fluorosilicone rubber - high temperature version)*						
Dielectric construction	Monobloc						
Sealing	Free connectors - environmentally resistant Fixed connectors - barrier and panel sealed Max leakage 1 cc/hr at pressure differential of 1 Bar						
Housing material	Aluminium alloy						

LMG Range Characteristics - Brass Version (Coarse Thread) Connectors

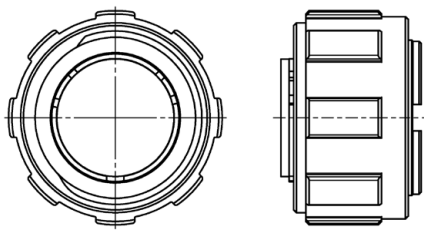
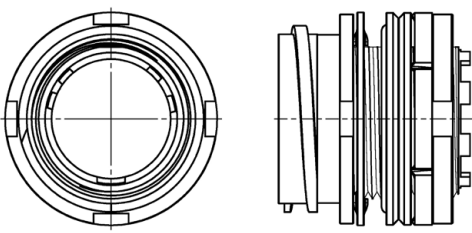
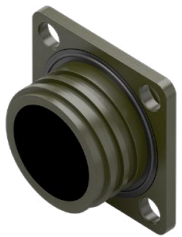
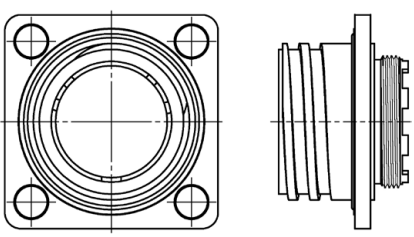
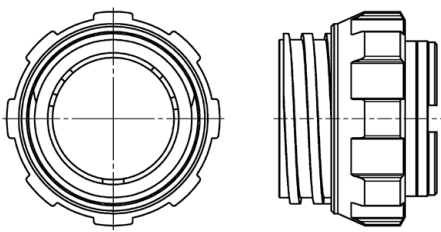
Temperature range	-55° to +100°C (-55° to +150°C for high temperature version)*						
Maximum altitude	8474 metres						
Number of contacts	2, 3, 4, 5, 6, 9, 12, 13, 18, 25, 26, 37						
Maximum current rating per individual contact at 70°C	3-60 amps dependent on contact size						
Contact finish	Silver plated (standard)						
Contact solderbucket	Rating	3 amp	5 amp	12 amp	19 amp	35 amp	60 amp
	Inside dia.	1.05 mm	1.50 mm	2.00 mm	2.75 mm	3.70 mm	5.00 mm
Working voltage DC or AC peak	500 volts at sea level (normal contacts) 1500 and 2500 volts (high voltage contacts)						
Polarization	By housing (shell) keys and keyways and by insert orientation						
Dielectric material	Polychloroprene (fluorosilicone rubber - high temperature version)*						
Dielectric construction	Monobloc						
Sealing	Free connectors - environmentally resistant Fixed connectors - barrier and panel sealed Max leakage 1 cc/hr at pressure differential of 1 Bar						
Housing material	Brass						

* - High temperature version available to special order. For more details please contact local Sales Office.

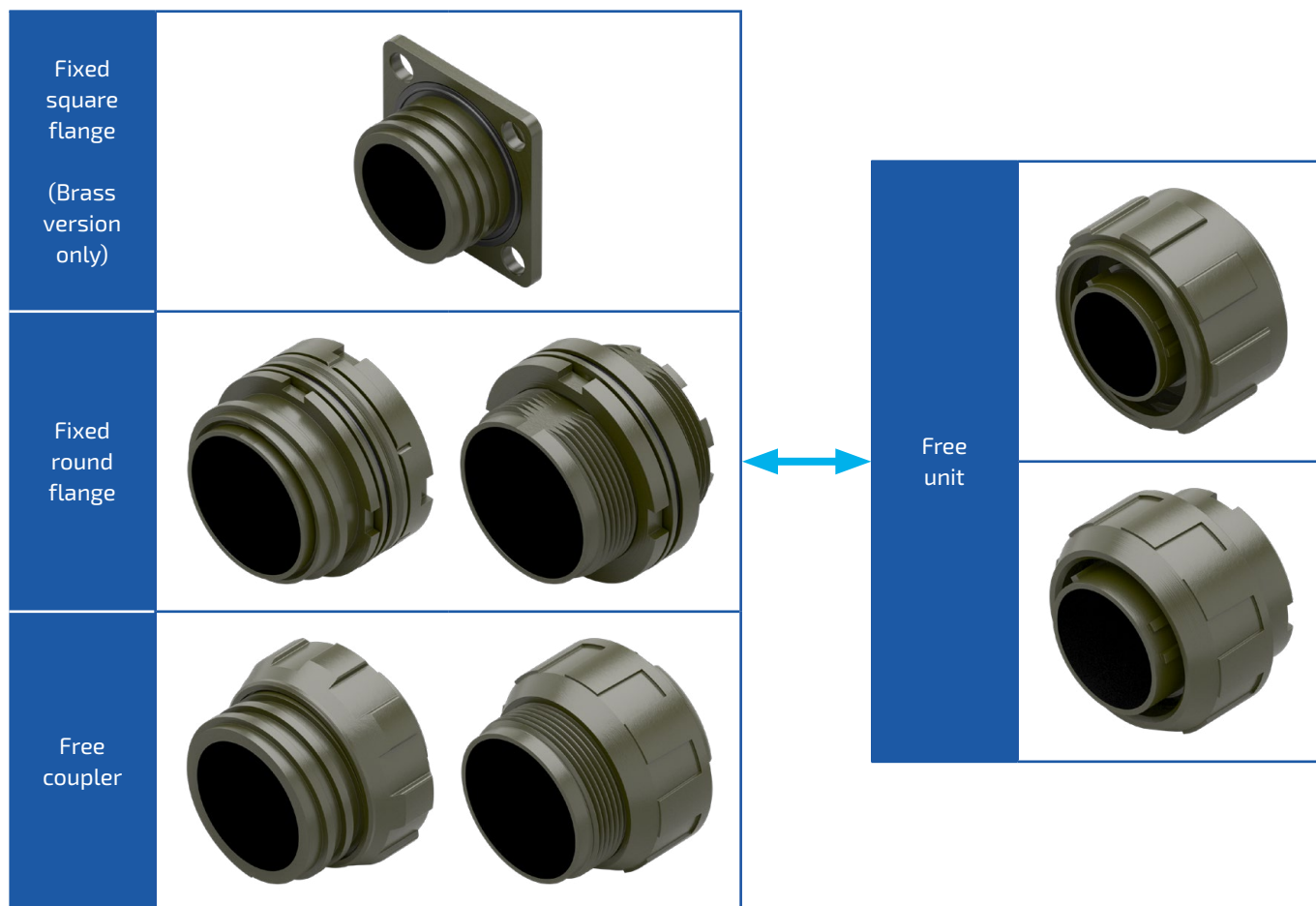
LMG Range Shell Styles - Aluminium Connectors With Fine Thread

Free unit A free plug or socket is wired to a cable as a means of connecting the cable to mating components. Outlet nuts are supplied with these items. See page 36			Mates with Fixed unit Free coupler Bulkhead unit
Fixed unit A fixed plug or socket - for single hole mounting - with no facility for the use of cable fittings. When these are required an outlet nut must be specified as an additional item. See page 37			Mates with Free unit
Free coupler unit A free coupler plug or socket is used as a means of connecting two free cables and mates with the free plug or socket only. Outlet nuts are supplied with these connectors. See page 36			Mates with Free unit

LMG Range Shell Styles - Brass Connectors With Coarse Thread

Free unit A free plug or socket is wired to a cable as a means of connecting the cable to mating components. Outlet nuts are supplied with these items. See page 39			Mates with Fixed unit Free coupler Bulkhead unit
Fixed unit (round flange) A fixed plug or socket - for single hole mounting - with no facility for the use of cable fittings. When these are required an outlet nut must be specified as an additional item. See page 41			Mates with Free unit
Fixed unit (square flange) A fixed plug or socket - four corner hole mounting (available only in brass) - with the facility to accept cable fittings. When these are required an outlet nut must be specified as an additional item. See page 42			Mates with Free unit
Free coupler unit A free coupler plug or socket is used as a means of connecting two free cables and mates with the free plug or socket only. Outlet nuts are supplied with these connectors. See page 39			Mates with Free unit

LMG Range Mating Combinations



LMG Contact Arrangements

All LMG connectors can be supplied with male and female contacts/mouldings and can be mated in combinations as shown above. The complete range of LMG Plugs and Sockets is catalogued on pages 16 to 35 in order of number of contacts.

Above each group are shown the plug pin arrangement, the contact coding and moulding characteristics of the mating face of a plug. All coding of sockets is reversed, i.e. a mirror image of the plug coding.

LMF and LMG Range Shell Size 1

2 contacts 19 amps

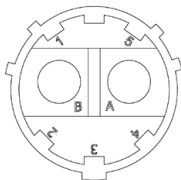
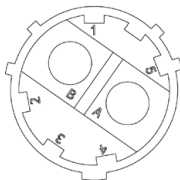
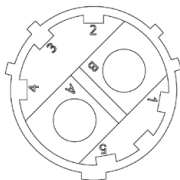
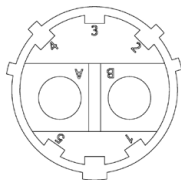
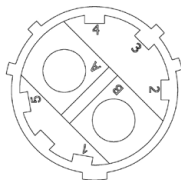
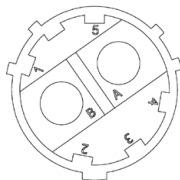
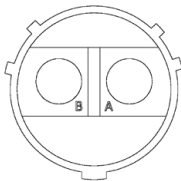
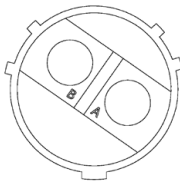
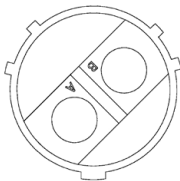
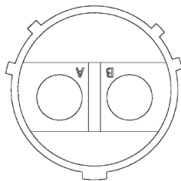
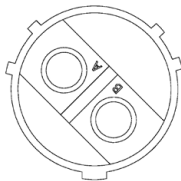
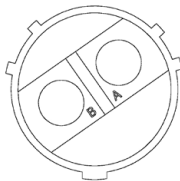
Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40020/320	LMG/1/07020/220	LMF/1/40220/520	LMG/1/07220/220
Free socket	LMF/1/40000/320	LMG/1/07000/220	LMF/1/40200/520	LMG/1/07200/220
Fixed plug (round flange)	LMF/1/40060/320	LMG/1/07060/220	LMF/1/40260/520	LMG/1/07340/220
Fixed socket (round flange)	LMF/1/40040/320	LMG/1/07040/220	LMF/1/40240/520	LMG/1/07320/220
Fixed plug (round flange with outlet nut)	LMF/1/40140/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40120/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40340/520	LMG/1/07260/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40320/520	LMG/1/07240/220
Free coupler plug	LMF/1/40100/320	LMG/1/07100/220	LMF/1/40300/520	LMG/1/07300/220
Free coupler socket	LMF/1/40080/320	LMG/1/07080/220	LMF/1/40280/520	LMG/1/07280/220
Bulkhead plug/socket	LMF/1/30180/320	N/A	LMF/1/40380/520	N/A
Bulkhead socket/plug	LMF/1/40160/320	N/A	LMF/1/40360/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 1 codes a and b accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40020/325 = orientation position 5.

LMF and LMG Range Shell Size 2

2 contacts 35 amps

Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40024/320	LMG/1/07024/220	LMF/1/40224/520	LMG/1/07224/220
Free socket	LMF/1/40004/320	LMG/1/07004/220	LMF/1/40204/520	LMG/1/07204/220
Fixed plug (round flange)	LMF/1/40064/320	LMG/1/07064/220	LMF/1/40264/520	LMG/1/07344/220
Fixed socket (round flange)	LMF/1/40044/320	LMG/1/07044/220	LMF/1/40244/520	LMG/1/07324/220
Fixed plug (round flange with outlet nut)	LMF/1/40144/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40124/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40344/520	LMG/1/07264/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40324/520	LMG/1/07244/220
Free coupler plug	LMF/1/40104/320	LMG/1/07104/220	LMF/1/40304/520	LMG/1/07304/220
Free coupler socket	LMF/1/40084/320	LMG/1/07084/220	LMF/1/40284/520	LMG/1/07284/220
Bulkhead plug/socket	N/A	N/A	N/A	N/A
Bulkhead socket/plug	N/A	N/A	N/A	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 2 codes c, d, e and f accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40024/325 = orientation position 5.

LMF and LMG Range Shell Size 1

3 contacts 5 amps

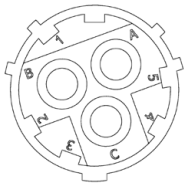
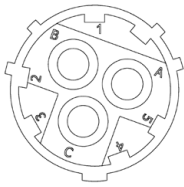
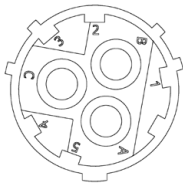
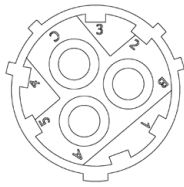
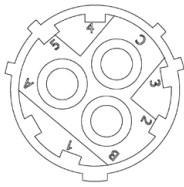
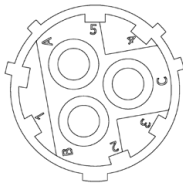
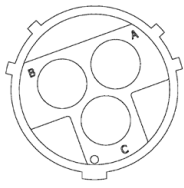
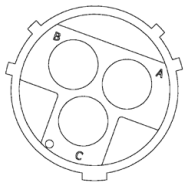
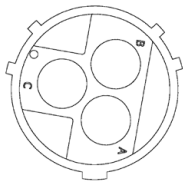
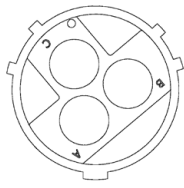
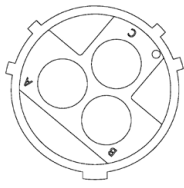
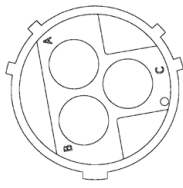
Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak		N/A	N/A	N/A	N/A	
LMG Range 500 volts D.C. or A.C. peak		N/A	N/A	N/A	N/A	

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40021/320	LMG/1/07021/220	LMF/1/40221/520	LMG/1/07221/220
Free socket	LMF/1/40001/320	LMG/1/07001/220	LMF/1/40201/520	LMG/1/07201/220
Fixed plug (round flange)	LMF/1/40061/320	LMG/1/07061/220	LMF/1/40261/520	LMG/1/07341/220
Fixed socket (round flange)	LMF/1/40041/320	LMG/1/07041/220	LMF/1/40241/520	LMG/1/07321/220
Fixed plug (round flange with outlet nut)	LMF/1/40141/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40121/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40341/520	LMG/1/07261/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40321/520	LMG/1/07241/220
Free coupler plug	LMF/1/40101/320	LMG/1/07101/220	LMF/1/40301/520	LMG/1/07301/220
Free coupler socket	LMF/1/40081/320	LMG/1/07081/220	LMF/1/40281/520	LMG/1/07281/220
Bulkhead plug/socket	LMF/1/40181/320	N/A	LMF/1/40381/520	N/A
Bulkhead socket/plug	LMF/1/40161/320	N/A	LMF/1/40361/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 1 codes a and b accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40021/325 = orientation position 5.

LMF and LMG Range Shell Size 2

3 contacts 19 amps

Plug face orientation	0	1	2	3	4	5
LMF Range 1500 volts D.C. or A.C. peak						
LMG Range 1500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40025/320	LMG/1/07025/220	LMF/1/40225/520	LMG/1/07225/220
Free socket	LMF/1/40005/320	LMG/1/07005/220	LMF/1/40205/520	LMG/1/07205/220
Fixed plug (round flange)	LMF/1/40065/320	LMG/1/07065/220	LMF/1/40265/520	LMG/1/07345/220
Fixed socket (round flange)	LMF/1/40045/320	LMG/1/07045/220	LMF/1/40245/520	LMG/1/07325/220
Fixed plug (round flange with outlet nut)	LMF/1/40145/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40125/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40345/520	LMG/1/07265/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40325/520	LMG/1/07245/220
Free coupler plug	LMF/1/40105/320	LMG/1/07105/220	LMF/1/40305/520	LMG/1/07305/220
Free coupler socket	LMF/1/40085/320	LMG/1/07085/220	LMF/1/40285/520	LMG/1/07285/220
Bulkhead plug/socket	N/A	N/A	N/A	N/A
Bulkhead socket/plug	N/A	N/A	N/A	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 2 codes c, d, e and f accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40025/325 = orientation position 5.

LMF and LMG Range Shell Size 1

4 contacts 5 amps

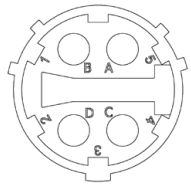
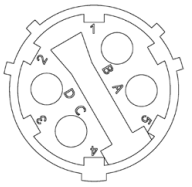
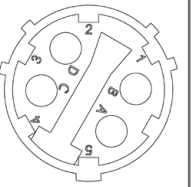
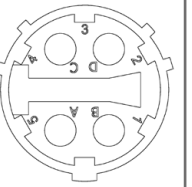
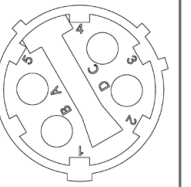
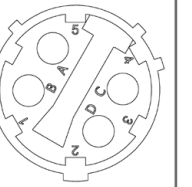
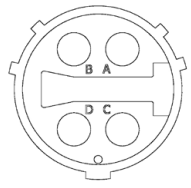
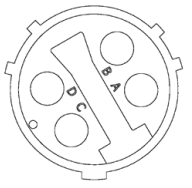
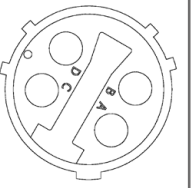
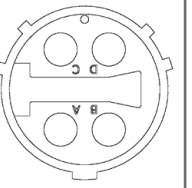
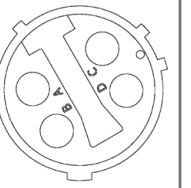
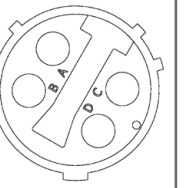
Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40022/320	LMG/1/07022/220	LMF/1/40222/520	LMG/1/07222/220
Free socket	LMF/1/40002/320	LMG/1/07002/220	LMF/1/40202/520	LMG/1/07202/220
Fixed plug (round flange)	LMF/1/40062/320	LMG/1/07062/220	LMF/1/40262/520	LMG/1/07342/220
Fixed socket (round flange)	LMF/1/40042/320	LMG/1/07042/220	LMF/1/40242/520	LMG/1/07322/220
Fixed plug (round flange with outlet nut)	LMF/1/40142/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40122/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40342/520	LMG/1/07262/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40322/520	LMG/1/07242/220
Free coupler plug	LMF/1/40102/320	LMG/1/07102/220	LMF/1/40302/520	LMG/1/07302/220
Free coupler socket	LMF/1/40082/320	LMG/1/07082/220	LMF/1/40282/520	LMG/1/07282/220
Bulkhead plug/socket	LMF/1/40182/320	N/A	LMF/1/40382/520	N/A
Bulkhead socket/plug	LMF/1/40162/320	N/A	LMF/1/40362/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 1 codes a and b accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40022/325 = orientation position 5.

LMF and LMG Range Shell Size 2

4 contacts 19 amps

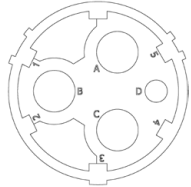
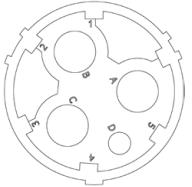
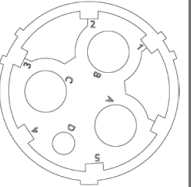
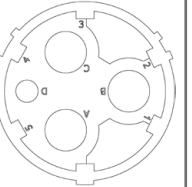
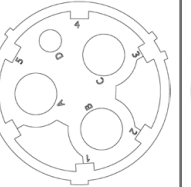
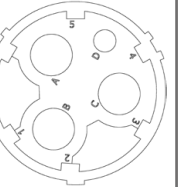
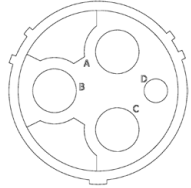
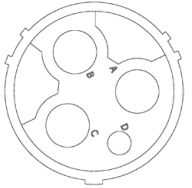
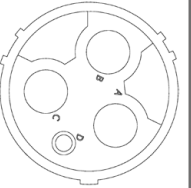
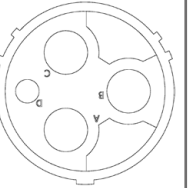
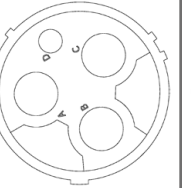
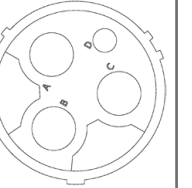
Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40026/320	LMG/1/07026/220	LMF/1/40226/520	LMG/1/07226/220
Free socket	LMF/1/40006/320	LMG/1/07006/220	LMF/1/40206/520	LMG/1/07206/220
Fixed plug (round flange)	LMF/1/40066/320	LMG/1/07066/220	LMF/1/40266/520	LMG/1/07346/220
Fixed socket (round flange)	LMF/1/40046/320	LMG/1/07046/220	LMF/1/40246/520	LMG/1/07326/220
Fixed plug (round flange with outlet nut)	LMF/1/40146/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40126/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40346/520	LMG/1/07266/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40326/520	LMG/1/07246/220
Free coupler plug	LMF/1/40106/320	LMG/1/07106/220	LMF/1/40306/520	LMG/1/07306/220
Free coupler socket	LMF/1/40086/320	LMG/1/07086/220	LMF/1/40286/520	LMG/1/07286/220
Bulkhead plug/socket	LMF/1/40186/320	N/A	LMF/1/40386/520	N/A
Bulkhead socket/plug	LMF/1/40166/320	N/A	LMF/1/40366/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 2 codes c, d, e and f accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40026/325 = orientation position 5.

LMF and LMG Range Shell Size 3

4 contacts - 3 contacts 60 amps and 1 contact 19 amps

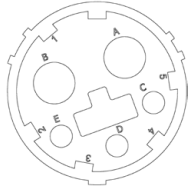
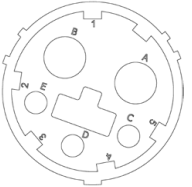
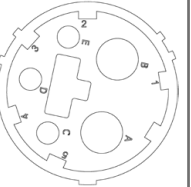
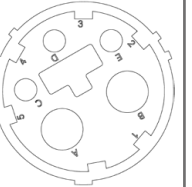
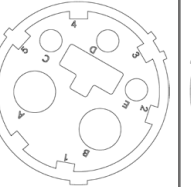
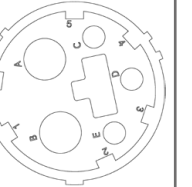
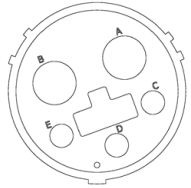
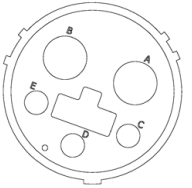
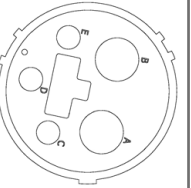
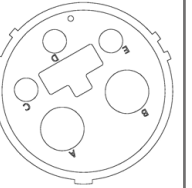
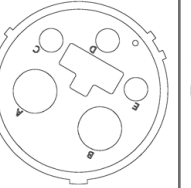
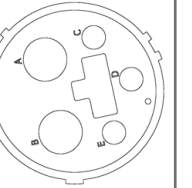
Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40030/320	LMG/1/07030/220	LMF/1/40230/520	LMG/1/07230/220
Free socket	LMF/1/40010/320	LMG/1/07010/220	LMF/1/40210/520	LMG/1/07210/220
Fixed plug (round flange)	LMF/1/40070/320	LMG/1/07070/220	LMF/1/40270/520	LMG/1/07350/220
Fixed socket (round flange)	LMF/1/40050/320	LMG/1/07050/220	LMF/1/40250/520	LMG/1/07330/220
Fixed plug (round flange with outlet nut)	LMF/1/40150/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40130/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40350/520	LMG/1/07270/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40330/520	LMG/1/07250/220
Free coupler plug	LMF/1/40110/320	LMG/1/07110/220	LMF/1/40310/520	LMG/1/07310/220
Free coupler socket	LMF/1/40090/320	LMG/1/07090/220	LMF/1/40290/520	LMG/1/07290/220
Bulkhead plug/socket	N/A	N/A	N/A	N/A
Bulkhead socket/plug	N/A	N/A	N/A	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 3 codes g, h and i accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40030/325 = orientation position 5.

LMF and LMG Range Shell Size 3

5 contacts - 2 contacts 60 amps and 3 contact 19 amps

Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40031/320	LMG/1/07031/220	LMF/1/40231/520	LMG/1/07231/220
Free socket	LMF/1/40011/320	LMG/1/07011/220	LMF/1/40211/520	LMG/1/07211/220
Fixed plug (round flange)	LMF/1/40071/320	LMG/1/07071/220	LMF/1/40271/520	LMG/1/07351/220
Fixed socket (round flange)	LMF/1/40051/320	LMG/1/07051/220	LMF/1/40251/520	LMG/1/07331/220
Fixed plug (round flange with outlet nut)	LMF/1/40151/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40131/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40351/520	LMG/1/07271/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40331/520	LMG/1/07251/220
Free coupler plug	LMF/1/40111/320	LMG/1/07111/220	LMF/1/40311/520	LMG/1/07311/220
Free coupler socket	LMF/1/40091/320	LMG/1/07091/220	LMF/1/40291/520	LMG/1/07291/220
Bulkhead plug/socket	N/A	N/A	N/A	N/A
Bulkhead socket/plug	N/A	N/A	N/A	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 3 codes g, h and i accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40031/325 = orientation position 5.

LMF and LMG Range Shell Size 1

6 contacts 5 amps

Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40023/320	LMG/1/07023/220	LMF/1/40223/520	LMG/1/07223/220
Free socket	LMF/1/40003/320	LMG/1/07003/220	LMF/1/40203/520	LMG/1/07203/220
Fixed plug (round flange)	LMF/1/40063/320	LMG/1/07063/220	LMF/1/40263/520	LMG/1/07343/220
Fixed socket (round flange)	LMF/1/40043/320	LMG/1/07043/220	LMF/1/40243/520	LMG/1/07323/220
Fixed plug (round flange with outlet nut)	LMF/1/40143/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40123/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40343/520	LMG/1/07263/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40323/520	LMG/1/07243/220
Free coupler plug	LMF/1/40103/320	LMG/1/07103/220	LMF/1/40303/520	LMG/1/07303/220
Free coupler socket	LMF/1/40083/320	LMG/1/07083/220	LMF/1/40283/520	LMG/1/07283/220
Bulkhead plug/socket	LMF/1/40183/320	N/A	LMF/1/40383/520	N/A
Bulkhead socket/plug	LMF/1/40163/320	N/A	LMF/1/40363/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 1 codes a & b accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40023/325 = orientation position 5.

LMF and LMG Range Shell Size 2

6 contact 5 amps

Plug face orientation	0	1	2	3	4	5
LMF Range 500 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40027/320	LMG/1/07027/220	LMF/1/40227/520	LMG/1/07227/220
Free socket	LMF/1/40007/320	LMG/1/07007/220	LMF/1/40207/520	LMG/1/07207/220
Fixed plug (round flange)	LMF/1/40067/320	LMG/1/07067/220	LMF/1/40267/520	LMG/1/07347/220
Fixed socket (round flange)	LMF/1/40047/320	LMG/1/07047/220	LMF/1/40247/520	LMG/1/07327/220
Fixed plug (round flange with outlet nut)	LMF/1/40147/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40127/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40347/520	LMG/1/07267/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40327/520	LMG/1/07247/220
Free coupler plug	LMF/1/40107/320	LMG/1/07107/220	LMF/1/40307/520	LMG/1/07307/220
Free coupler socket	LMF/1/40087/320	LMG/1/07087/220	LMF/1/40287/520	LMG/1/07287/220
Bulkhead plug/socket	LMF/1/40187/320	N/A	LMF/1/40387/520	N/A
Bulkhead socket/plug	LMF/1/40167/320	N/A	LMF/1/40367/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 2 codes c, d, e and f accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40027/325 = orientation position 5.

LMF and LMG Range Shell Size 2

6 contacts 5 amps

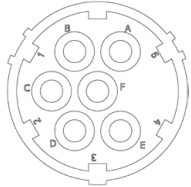
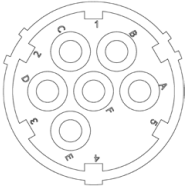
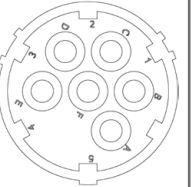
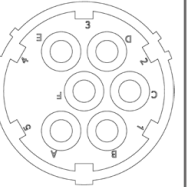
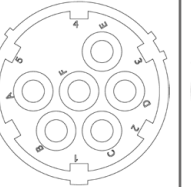
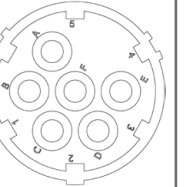
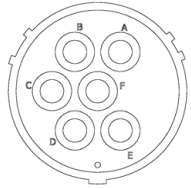
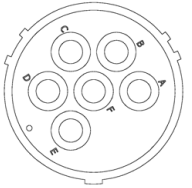
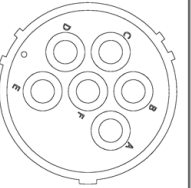
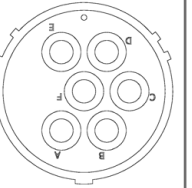
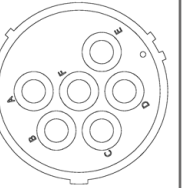
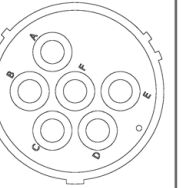
Plug face orientation	0	1	2	3	4	5
LMF Range 1500 volts D.C. or A.C. peak						
LMG Range 1500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40028/320	LMG/1/07028/220	LMF/1/40228/520	LMG/1/07228/220
Free socket	LMF/1/40008/320	LMG/1/07008/220	LMF/1/40208/520	LMG/1/07208/220
Fixed plug (round flange)	LMF/1/40068/320	LMG/1/07068/220	LMF/1/40268/520	LMG/1/07348/220
Fixed socket (round flange)	LMF/1/40048/320	LMG/1/07048/220	LMF/1/40248/520	LMG/1/07328/220
Fixed plug (round flange with outlet nut)	LMF/1/40148/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40128/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40348/520	LMG/1/07268/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40328/520	LMG/1/07248/220
Free coupler plug	LMF/1/40108/320	LMG/1/07108/220	LMF/1/40308/520	LMG/1/07308/220
Free coupler socket	LMF/1/40088/320	LMG/1/07088/220	LMF/1/40288/520	LMG/1/07288/220
Bulkhead plug/socket	LMF/1/40188/320	N/A	LMF/1/40388/520	N/A
Bulkhead socket/plug	LMF/1/40168/320	N/A	LMF/1/40368/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 2 codes c, d, e and f accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40028/325 = orientation position 5.

LMF and LMG Range Shell Size 3

6 contact 19 amps

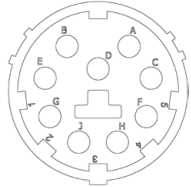
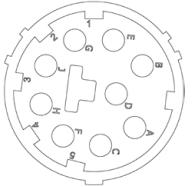
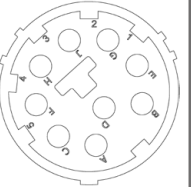
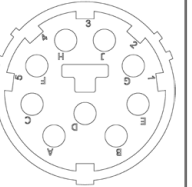
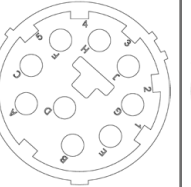
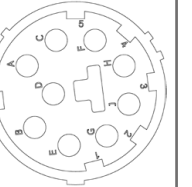
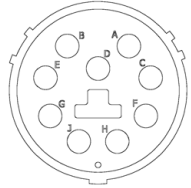
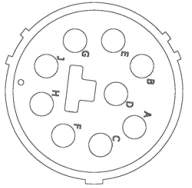
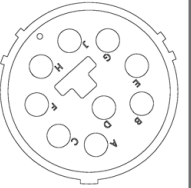
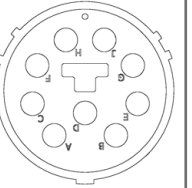
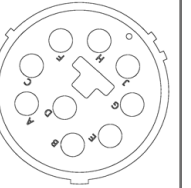
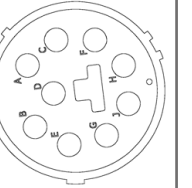
Plug face orientation	0	1	2	3	4	5
LMF Range 2500 volts D.C. or A.C. peak						
LMG Range 2500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40032/320	LMG/1/07032/220	LMF/1/40232/520	LMG/1/07232/220
Free socket	LMF/1/40012/320	LMG/1/07012/220	LMF/1/40212/520	LMG/1/07212/220
Fixed plug (round flange)	LMF/1/40072/320	LMG/1/07072/220	LMF/1/40272/520	LMG/1/07352/220
Fixed socket (round flange)	LMF/1/40052/320	LMG/1/07052/220	LMF/1/40252/520	LMG/1/07332/220
Fixed plug (round flange with outlet nut)	LMF/1/40152/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40132/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40352/520	LMG/1/07272/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40332/520	LMG/1/07252/220
Free coupler plug	LMF/1/40112/320	LMG/1/07112/220	LMF/1/40312/520	LMG/1/07312/220
Free coupler socket	LMF/1/40092/320	LMG/1/07092/220	LMF/1/40292/520	LMG/1/07292/220
Bulkhead plug/socket	LMF/1/40192/320	N/A	LMF/1/40392/520	N/A
Bulkhead socket/plug	LMF/1/40172/320	N/A	LMF/1/40372/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 3 codes g, h and i accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40032/325 = orientation position 5.

LMF and LMG Range Shell Size 3

9 contacts 19 amps

Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40033/320	LMG/1/07033/220	LMF/1/40233/520	LMG/1/07233/220
Free socket	LMF/1/40013/320	LMG/1/07013/220	LMF/1/40213/520	LMG/1/07213/220
Fixed plug (round flange)	LMF/1/40073/320	LMG/1/07073/220	LMF/1/40273/520	LMG/1/07353/220
Fixed socket (round flange)	LMF/1/40053/320	LMG/1/07053/220	LMF/1/40253/520	LMG/1/07333/220
Fixed plug (round flange with outlet nut)	LMF/1/40153/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40133/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40353/520	LMG/1/07273/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40333/520	LMG/1/07253/220
Free coupler plug	LMF/1/40113/320	LMG/1/07113/220	LMF/1/40313/520	LMG/1/07313/220
Free coupler socket	LMF/1/40093/320	LMG/1/07093/220	LMF/1/40293/520	LMG/1/07293/220
Bulkhead plug/socket	N/A	N/A	N/A	N/A
Bulkhead socket/plug	N/A	N/A	N/A	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 3 codes g, h and i accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40033/325 = orientation position 5.

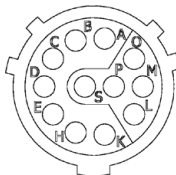
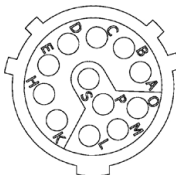
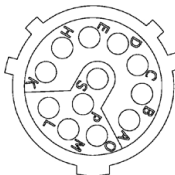
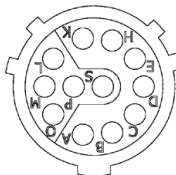
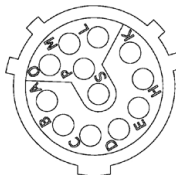
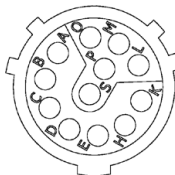
LMG Range Shell Size 1

12 contact 3 amps 500 volts D.C. or A.C. peak



Plugs have 7 male contacts and 5 female contacts

Sockets have 7 female contacts and 5 male contacts

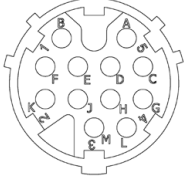
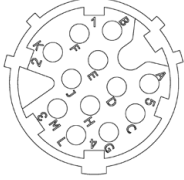
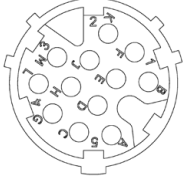
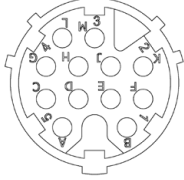
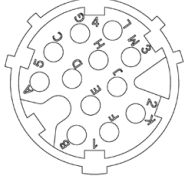
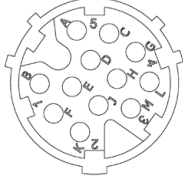
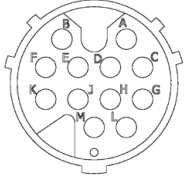
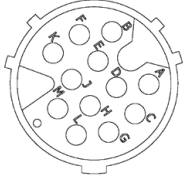
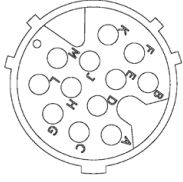
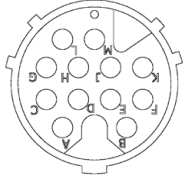
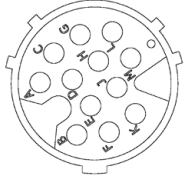
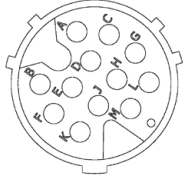
Plug face orientation	0	1	2	3	4	5
LMG Range						

Connector style	Aluminium	Brass
	LMG part number	LMG part number
Free plug	LMG/1/18448/220	LMG/1/18508/220
Free socket	LMG/1/18458/220	LMG/1/18518/220
Fixed plug (round flange)	LMG/1/18468/220	LMG/1/18528/220
Fixed socket (round flange)	LMG/1/18478/220	LMG/1/18538/220
Fixed plug (square flange)	N/A	LMG/1/18548/220
Fixed socket (square flange)	N/A	LMG/1/18558/220
Free coupler plug	LMG/1/18488/220	LMG/1/18568/220
Free coupler socket	LMG/1/18498/220	LMG/1/18578/220

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 1 codes a and b accessories may be used with these connectors.
- For mating combinations refer to page 15.
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMG/118448/225 = orientation position 5.

LMF and LMG Range Shell Size 2

12 contacts 5 amps

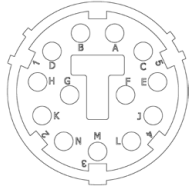
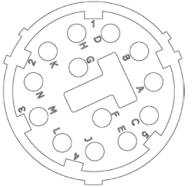
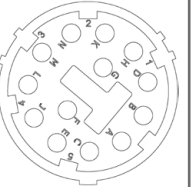
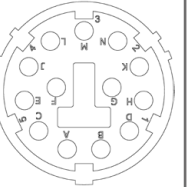
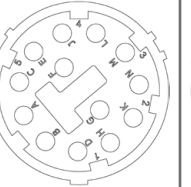
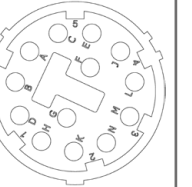
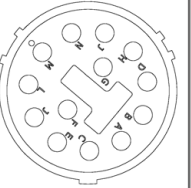
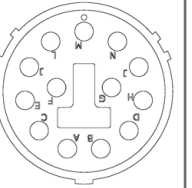
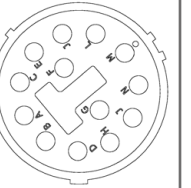
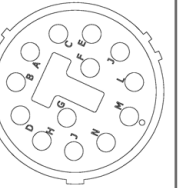
Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40029/320	LMG/1/07029/220	LMF/1/40229/520	LMG/1/07229/220
Free socket	LMF/1/40009/320	LMG/1/07009/220	LMF/1/40209/520	LMG/1/07209/220
Fixed plug (round flange)	LMF/1/40069/320	LMG/1/07069/220	LMF/1/40269/520	LMG/1/07349/220
Fixed socket (round flange)	LMF/1/40049/320	LMG/1/07049/220	LMF/1/40249/520	LMG/1/07329/220
Fixed plug (round flange with outlet nut)	LMF/1/40149/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40129/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40349/520	LMG/1/07269/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40329/520	LMG/1/07249/220
Free coupler plug	LMF/1/40109/320	LMG/1/07109/220	LMF/1/40309/520	LMG/1/07309/220
Free coupler socket	LMF/1/40089/320	LMG/1/07089/220	LMF/1/40289/520	LMG/1/07289/220
Bulkhead plug/socket	LMF/1/40189/320	N/A	LMF/1/40389/520	N/A
Bulkhead socket/plug	LMF/1/40169/320	N/A	LMF/1/40369/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 2 codes c, d, e and f accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40029/325 = orientation position 5.

LMF and LMG Range Shell Size 3

13 contact 12 amps

Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40434/320	LMG/1/07034/220	LMF/1/40634/520	LMG/1/07234/220
Free socket	LMF/1/40414/320	LMG/1/07014/220	LMF/1/40614/520	LMG/1/07214/220
Fixed plug (round flange)	LMF/1/40474/320	LMG/1/07074/220	LMF/1/40674/520	LMG/1/07354/220
Fixed socket (round flange)	LMF/1/40454/320	LMG/1/07054/220	LMF/1/40654/520	LMG/1/07334/220
Fixed plug (round flange with outlet nut)	LMF/1/40554/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40534/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40754/520	LMG/1/07274/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40734/520	LMG/1/07254/220
Free coupler plug	LMF/1/40514/320	LMG/1/07114/220	LMF/1/40714/520	LMG/1/07314/220
Free coupler socket	LMF/1/40494/320	LMG/1/07094/220	LMF/1/40694/520	LMG/1/07294/220
Bulkhead plug/socket	N/A	N/A	N/A	N/A
Bulkhead socket/plug	N/A	N/A	N/A	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 3 codes g, h and i accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40034/325 = orientation position 5.

LMF and LMG Range Shell Size 3

25 contacts - special

Contacts A, B, C 1500 volts D.C. or A.C. peak between contacts

Contacts D to P 250 volts (LMF) or 500 volts (LMG) D.C. or A.C. peak between contacts

Contacts Q, R, S 250 volts (LMF) or 500 volts (LMG) D.C. or A.C. peak between contacts

1500 volts D.C. or A.C. peak contacts to shell

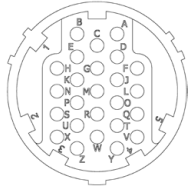
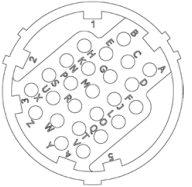
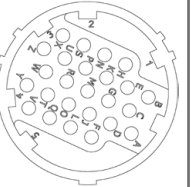
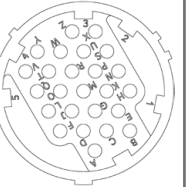
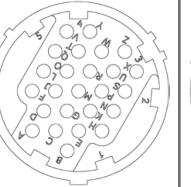
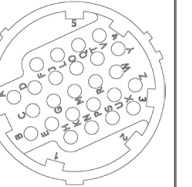
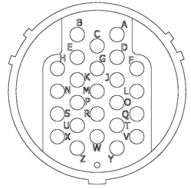
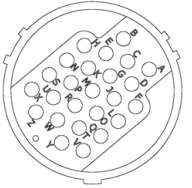
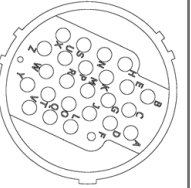
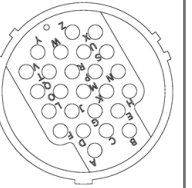
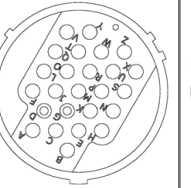
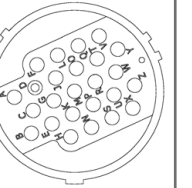
Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40035/320	LMG/1/07035/220	LMF/1/40235/520	LMG/1/07235/220
Free socket	LMF/1/40015/320	LMG/1/07015/220	LMF/1/40215/520	LMG/1/07215/220
Fixed plug (round flange)	LMF/1/40075/320	LMG/1/07075/220	LMF/1/40275/520	LMG/1/07355/220
Fixed socket (round flange)	LMF/1/40055/320	LMG/1/07055/220	LMF/1/40255/520	LMG/1/07335/220
Fixed plug (round flange with outlet nut)	LMF/1/40155/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40135/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40355/520	LMG/1/07275/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40335/520	LMG/1/07255/220
Free coupler plug	LMF/1/40115/320	LMG/1/07115/220	LMF/1/40315/520	LMG/1/07315/220
Free coupler socket	LMF/1/40095/320	LMG/1/07095/220	LMF/1/40295/520	LMG/1/07295/220
Bulkhead plug/socket	LMF/1/40195/320	N/A	LMF/1/40395/520	N/A
Bulkhead socket/plug	LMF/1/40175/320	N/A	LMF/1/40375/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 3 codes g, h and i accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40035/325 = orientation position 5.

LMF and LMG Range Shell Size 3

25 contact 5 amps

Plug face orientation	0	1	2	3	4	5
LMF Range 250 volts D.C. or A.C. peak						
LMG Range 500 volts D.C. or A.C. peak						

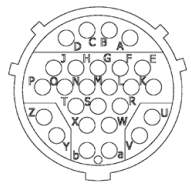
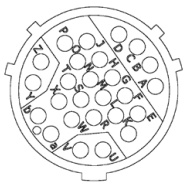
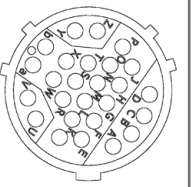
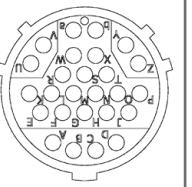
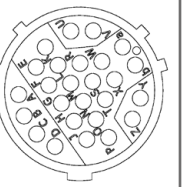
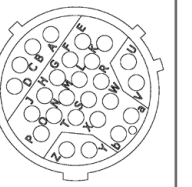
Connector style	Aluminium		Brass	
	LMF part number	LMG part number	LMF part number	LMG part number
Free plug	LMF/1/40036/320	LMG/1/07036/220	LMF/1/40236/520	LMG/1/07236/220
Free socket	LMF/1/40016/320	LMG/1/07016/220	LMF/1/40216/520	LMG/1/07216/220
Fixed plug (round flange)	LMF/1/40076/320	LMG/1/07076/220	LMF/1/40276/520	LMG/1/07356/220
Fixed socket (round flange)	LMF/1/40056/320	LMG/1/07056/220	LMF/1/40256/520	LMG/1/07336/220
Fixed plug (round flange with outlet nut)	LMF/1/40156/320	N/A	N/A	N/A
Fixed socket (round flange with outlet nut)	LMF/1/40136/320	N/A	N/A	N/A
Fixed plug (square flange)	N/A	N/A	LMF/1/40356/520	LMG/1/07276/220
Fixed socket (square flange)	N/A	N/A	LMF/1/40336/520	LMG/1/07256/220
Free coupler plug	LMF/1/40116/320	LMG/1/07116/220	LMF/1/40316/520	LMG/1/07316/220
Free coupler socket	LMF/1/40096/320	LMG/1/07096/220	LMF/1/40296/520	LMG/1/07296/220
Bulkhead plug/socket	LMF/1/40196/320	N/A	LMF/1/40396/520	N/A
Bulkhead socket/plug	LMF/1/40176/320	N/A	LMF/1/40376/520	N/A

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 3 codes g, h and i accessories may be used with these connectors.
- For mating combinations refer to page 11 (for LMF) or page 15 (for LMG).
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMF/1/40036/325 = orientation position 5.

LMG Range Shell Size 2

26 contact 3 amps 500 volts D.C. or A.C. peak

⚠ Plugs have 18 male contacts and 8 female contacts
Sockets have 18 female contacts and 8 male contacts

Plug face orientation	0	1	2	3	4	5
LMG Range						

Connector style	Aluminium	Brass
	LMG part number	LMG part number
Free plug	LMG/1/18449/220	LMG/1/18509/220
Free socket	LMG/1/18459/220	LMG/1/18519/220
Fixed plug (round flange)	LMG/1/18469/220	LMG/1/18529/220
Fixed socket (round flange)	LMG/1/18479/220	LMG/1/18539/220
Fixed plug (square flange)	N/A	LMG/1/18549/220
Fixed socket (square flange)	N/A	LMG/1/18559/220
Free coupler plug	LMG/1/18489/220	LMG/1/18569/220
Free coupler socket	LMG/1/18499/220	LMG/1/18579/220

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 2 codes c, d, e and f accessories may be used with these connectors.
- For mating combinations refer to page 15.
- To specify orientation versions replace last digit with digit of relevant position number, e.g. LMG/1/18449/225 = orientation position 5.

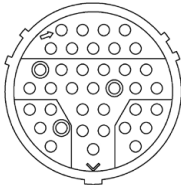
LMG Range Shell Size 3

37 contact 3 amps 500 volts D.C. or A.C. peak



Plugs have 18 male contacts and 19 female contacts

Sockets have 18 female contacts and 19 male contacts

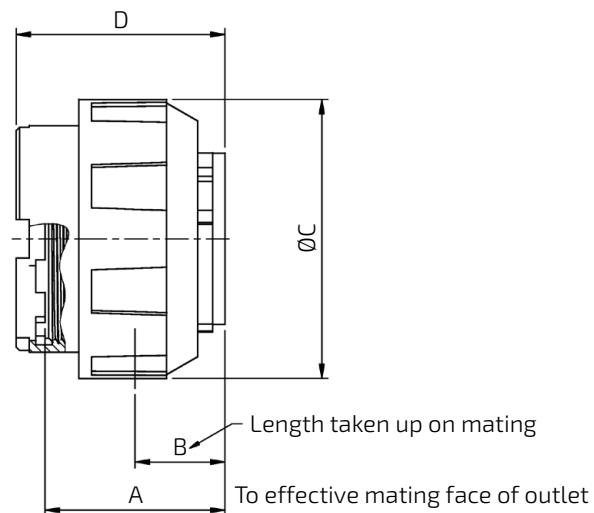
Plug face orientation	0	1	2	3	4	5
LMG Range		N/A	N/A	N/A	N/A	N/A

Connector style	Brass
	LMG part number
Free plug	LMG/1/18510/220
Free socket	LMG/1/18520/220
Fixed plug (round flange)	N/A
Fixed socket (round flange)	N/A
Fixed plug (square flange)	LMG/1/18550/220
Fixed socket (square flange)	LMG/1/18560/220
Free coupler plug	LMG/1/18570/220
Free coupler socket	LMG/1/18580/220

- The part numbers above are for the most common variants. For other variants see Ordering Information on page 7.
- Only shell size 3 codes g, h and i accessories may be used with these connectors.
- For mating combinations refer to page 15.

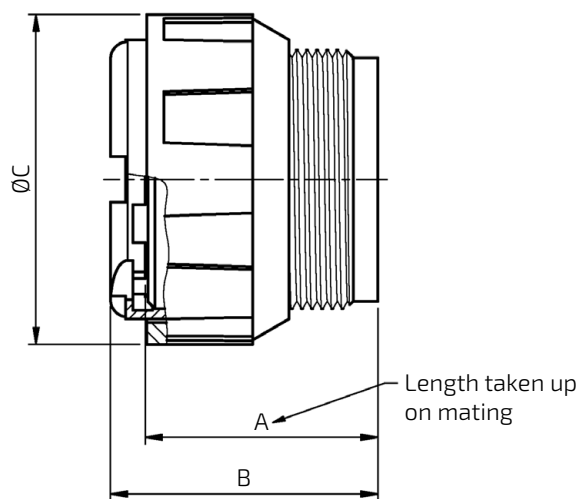
Dimensions - Aluminium LMF and LMG Connectors

Free plugs and sockets



Shell size	A max	B max	ØC max	D max	Coupling thread dia. X 20 T.P.I. B.S. 84
1	22.61	8.00	29.21	26.67	0.8437"
2	22.61	8.00	34.80	26.67	1.0625"
3	28.19	11.00	44.45	32.00	1.4375"

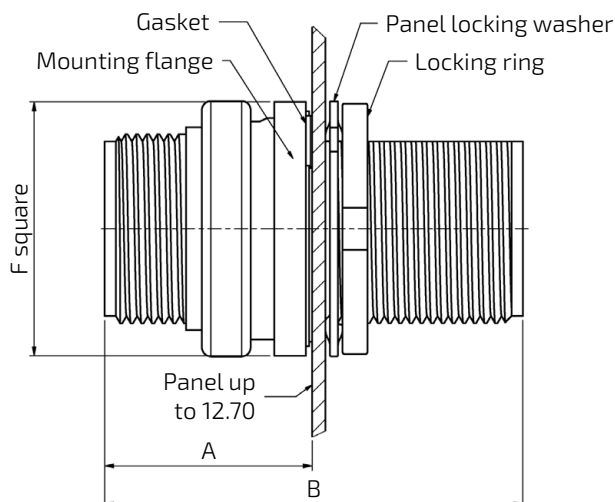
Free coupler plugs and sockets



Shell size	A max	B max	ØC max	Coupling thread dia. X 20 T.P.I. B.S. 84
1	25.65	30.48	29.21	0.8437"
2	25.65	30.48	34.80	1.0625"
3	27.81	33.02	44.45	1.4375"

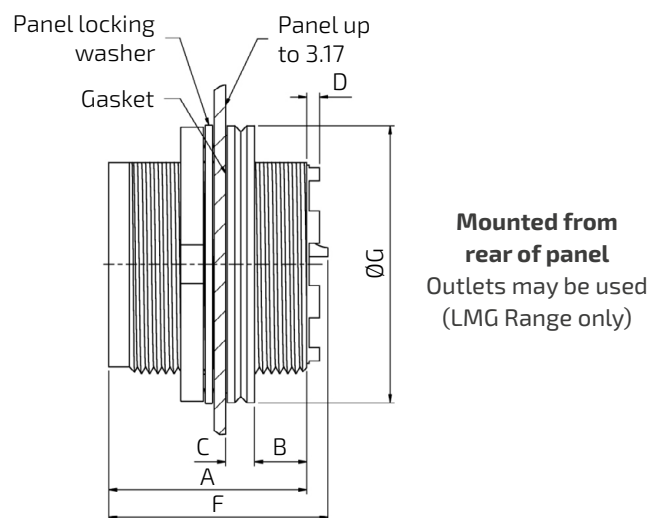
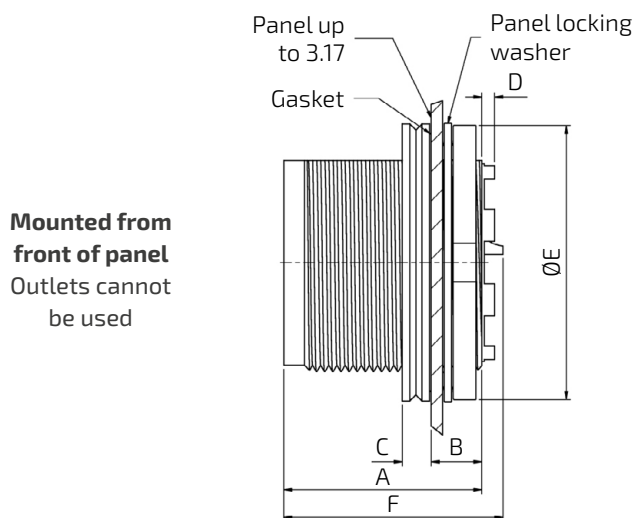
Dimensions - Aluminium LMF and LMG Connectors

Bulkhead plug/sockets and socket/plugs



Shell size	A	B	F square
1	22.35	46.74	28.45
2	22.35	46.74	34.04
3	24.64	52.32	43.69

Fixed round flange plugs and sockets



Shell size	A max	B min	C min	D	ØE max	F max	ØG max
1	25.65	5.97	3.30	1.14	28.70	27.43	29.21
2	25.65	5.97	3.30	1.14	34.29	27.43	35.05
3	27.81	7.62	3.81	1.52	43.94	29.21	44.45

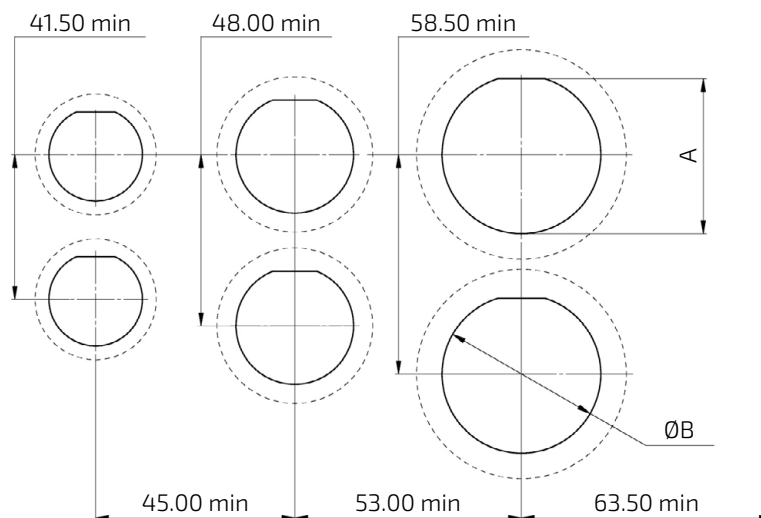


For required tools see page 59. For coupling thread see Free Unit (page 34).

LMF Connectors fixed round flange do not have accessory castellations. Illustrations on this page are LMG.

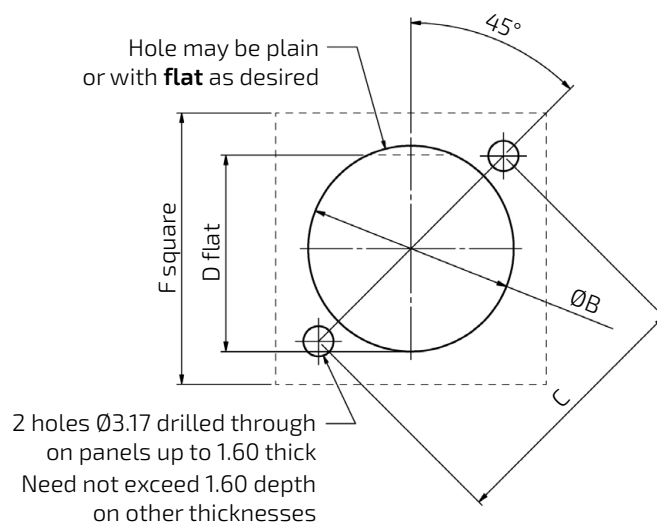
Panel Piercing Details - Aluminium LMF and LMG Connectors

Fixed plugs and sockets



Shell size	A	ØB
1	20.60/20.73	21.54/21.67
2	26.24/26.36	27.10/27.23
3	35.81/35.94	36.63/36.75

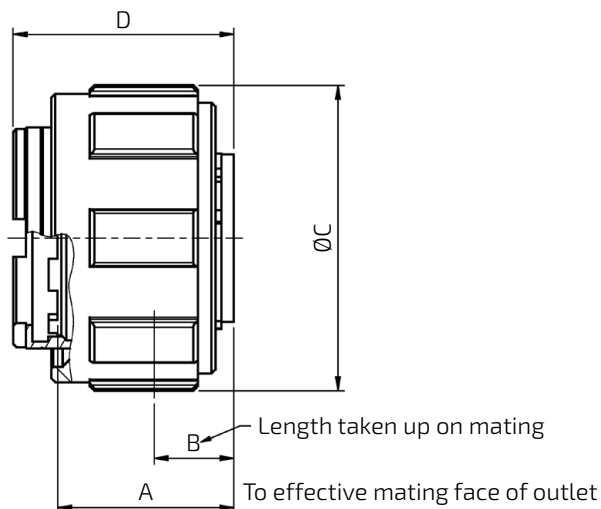
Bulkhead plug/socket and socket/plug



Shell size	C	D flat	ØE	F square
1	27.43/27.56	20.60/20.73	21.54/21.67	28.45
2	34.80/34.92	26.24/26.36	27.10/27.23	34.04
3	45.97/46.10	35.81/35.94	36.63/36.75	43.69

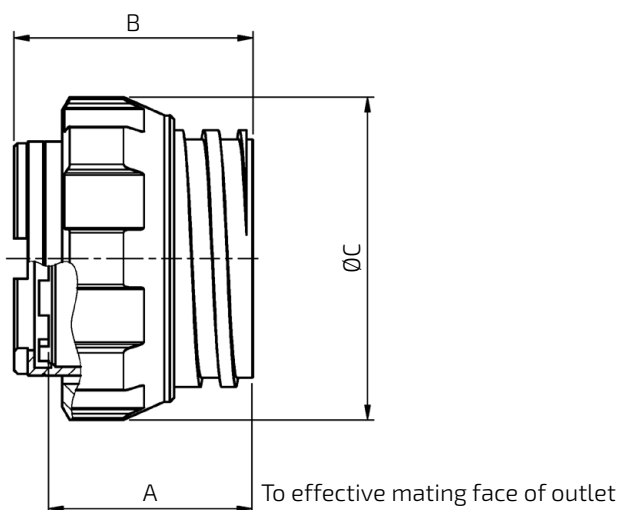
Dimensions - Brass LMF and LMG Connectors

Free plug and sockets



Shell size	A max	B max	ØC max	D max	Coupling thread (nominal)
1	22.61	8	32.51	26.67	Major Dia. 1.000" X 6 T.P.I. Modified Acme
2	22.61	8	38.61	26.67	Major Dia. 1.219" X 6 T.P.I. Modified Acme
3	28.19	11	49.02	32.00	Major Dia. 1.605" X 6 T.P.I. Modified Acme
3 HD*	28.19	11	49.02	32.00	Major Dia. 1.605" X 8 T.P.I. Twin-Start Modified Acme

Free coupler plugs and sockets

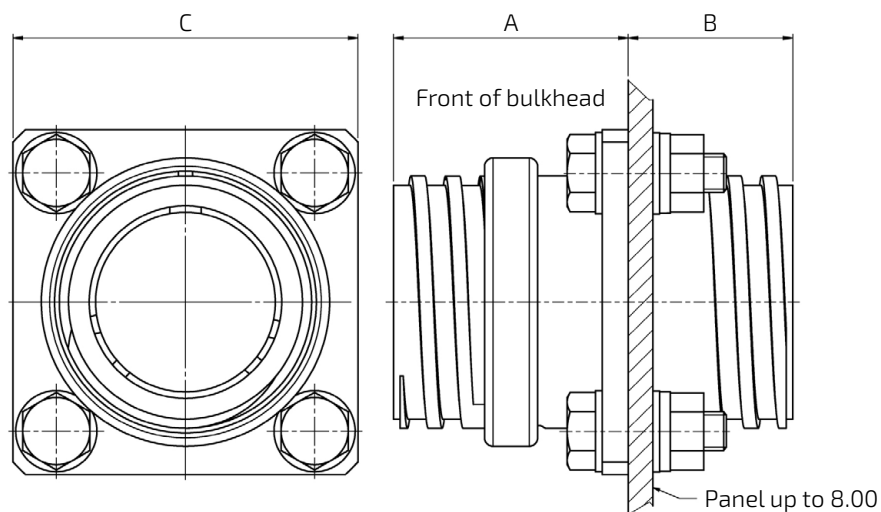


Shell size	A max	B max	ØC min	Coupling thread (nominal)
1	26.92	30.48	32.51	Major Dia. 1.000" X 6 T.P.I. Modified Acme
2	26.92	30.48	38.61	Major Dia. 1.219" X 6 T.P.I. Modified Acme
3	27.81	33.02	49.02	Major Dia. 1.605" X 6 T.P.I. Modified Acme
3 HD*	27.81	33.02	49.02	Major Dia. 1.605" X 8 T.P.I. Twin-Start Modified Acme

* - Relates to size 3 connectors with 37 contacts.

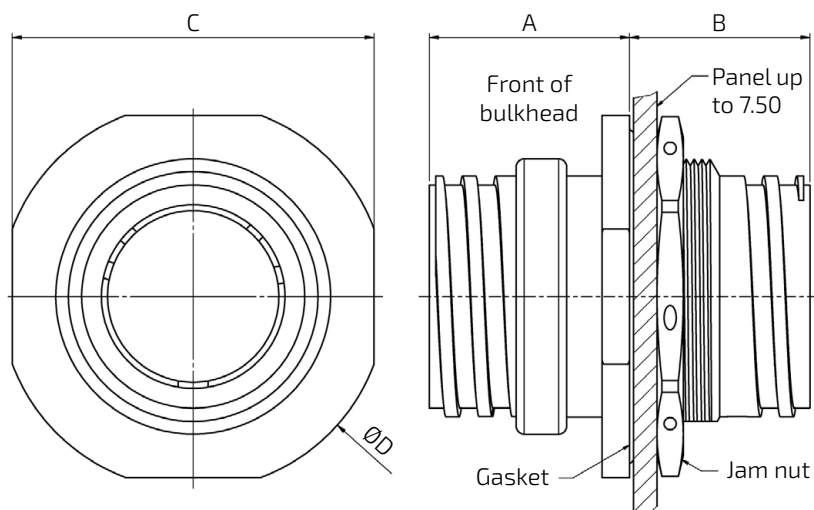
Dimensions - Brass LMF Connectors

Square flange bulkhead plug/sockets and socket/plugs (LMF only)



Shell size	A	B	C square
1	29.91	20.07	33.78
2	29.21	20.07	41.91
3	31.50	23.37	48.77

Single hole mounting bulkhead plug/sockets and socket/plugs (LMF only)



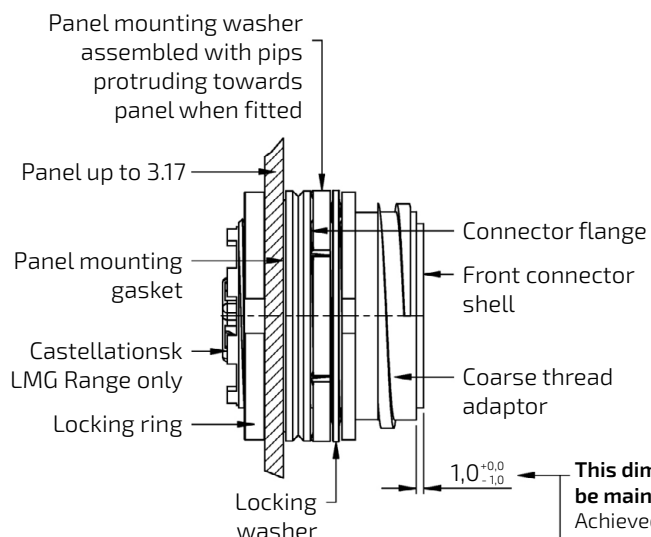
Shell size	A	B	C	ØD
1	25.50	23.00	38.20	41.80
2	25.50	23.00	46.10	49.20
3	29.00	25.00	55.60	58.60

Dimensions - Brass LMF and LMG Connectors

Fixed round flange plugs and sockets

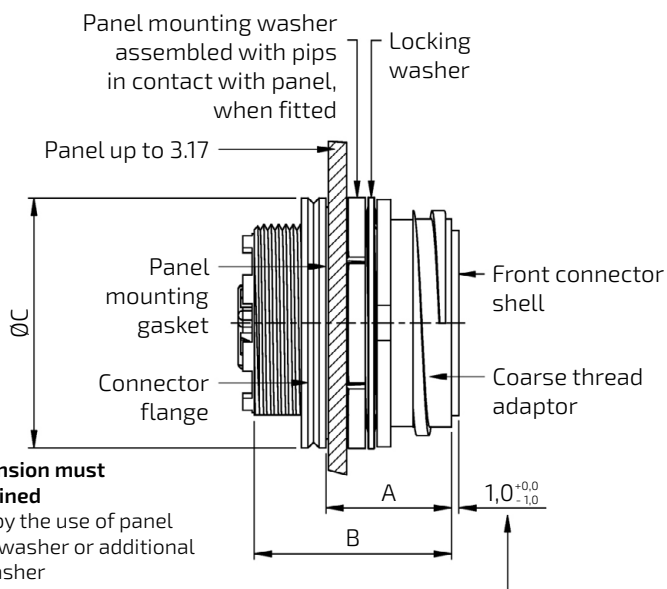
Mounted from front of panel

Outlets cannot be used



Mounted from rear of panel

Outlets may be used (LMG Range only)

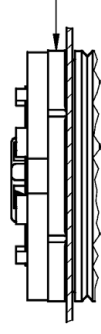


This dimension must be maintained
Achieved by the use of panel mounting washer or additional locking washer

An additional locking washer is required for panels from 1.14 up to 2.16
Use between panel and locking ring



Alternatively for panels from 0.76 up to 1.14 use a panel mounting washer in between panel and locking ring



Shell size	A max	B nom	ØC	Panel mounting washer part number
1	15.24	25.65	29.21	LMA/2/07810/00*
2	15.24	25.65	34.80	LMA/2/07811/00*
3	17.02	27.81	44.45	LMA/2/07812/00*



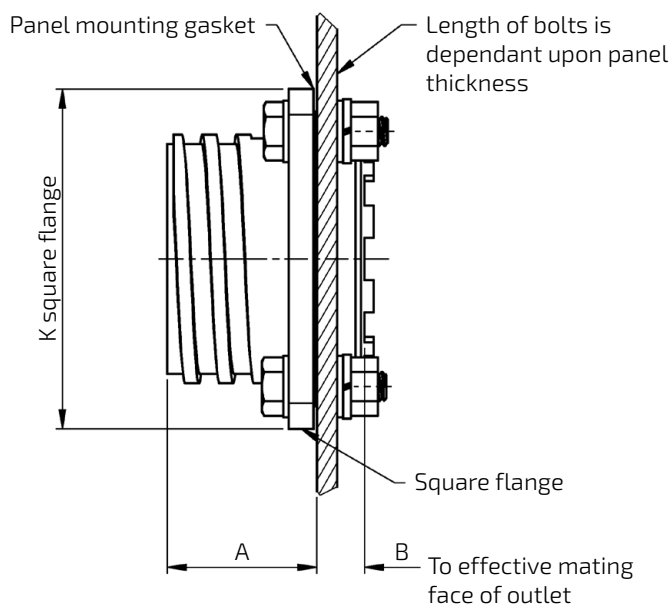
For required tools see page 59. For coupling thread see Free Unit (page 39).

LMF Connectors fixed round flange do not have accessory castellations. Illustrations on this page are LMG.

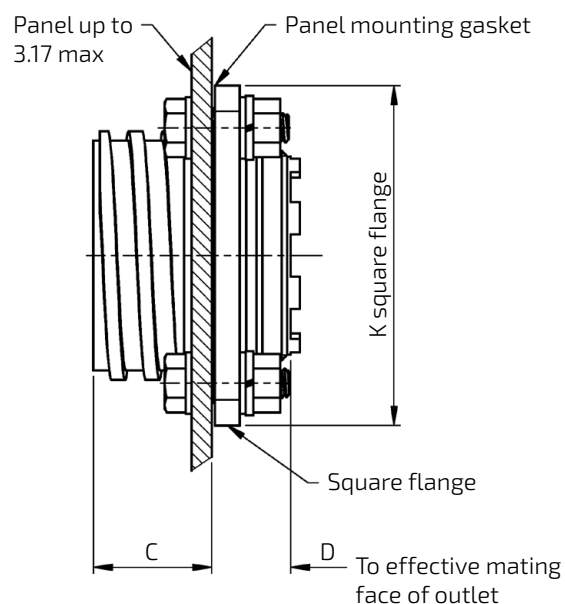
Dimensions - Brass LMF and LMG Connectors

Fixed square flange plugs and sockets

Mounted from front of panel



Mounted from rear of panel



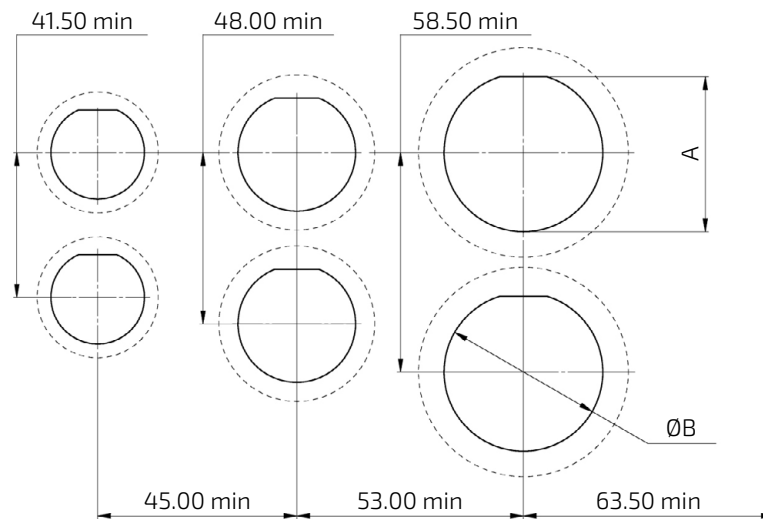
Shell size	A max	B	C max	D	K square max
1	19.94	6.60	17.14	9.65	34.04
2	19.94	6.60	17.14	9.65	42.16
3	22.10	7.11	18.29	10.16	49.02

⚠ These plugs and sockets are supplied with a panel-mounting gasket.

⚠ Where outlets are to be used, outlet nuts must be ordered as additional items.
For details see page 51.

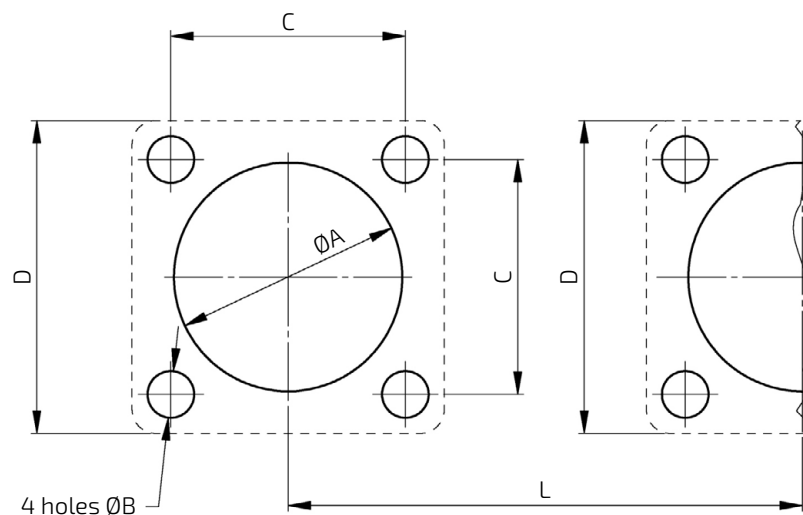
Panel Piercing Details - Brass LMF and LMG Connectors

Free plug and sockets



Shell size	A min/max	ØB
1	20.60/20.73	21.54/21.67
2	26.24/26.36	27.10/27.23
3	35.81/35.94	36.63/36.75

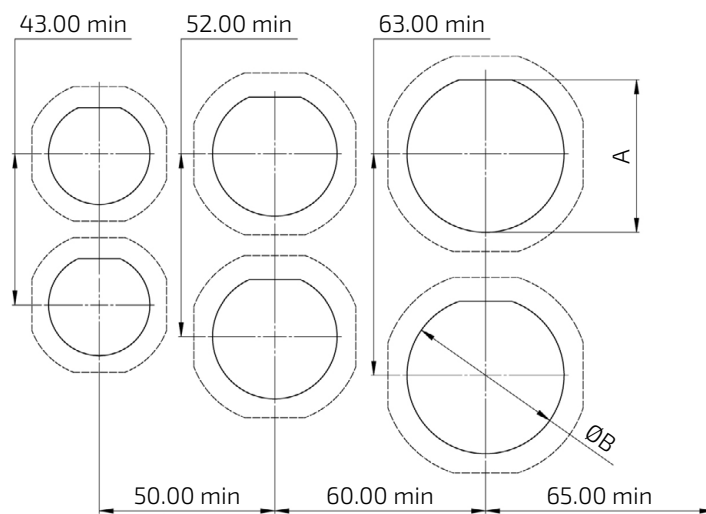
Fixed square flange plugs and sockets



Shell size	ØA min/max	ØB	C	D nom	L
1	25.27/25.40	3.96	25.40	33.78	36.83
2	30.86/30.99	5.10	31.37	41.91	43.43
3	40.39/40.51	5.10	38.48	48.77	55.63

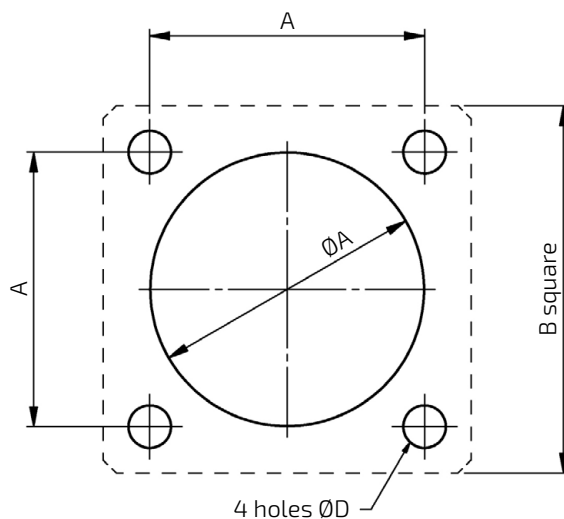
Panel Piercing Details - Brass LMF Connectors

Single hole mounting bulkhead plug/sockets and socket/plugs (LMF only)



Shell size	A	ØB
1	27.56/27.81	28.83/29.08
2	33.91/34.16	35.18/35.43
3	43.43/43.68	44.70/44.95

Square flange bulkhead plug/sockets and socket/plugs (LMF only)



Shell size	A	B	ØC	ØD
1	25.40	33.78	25.53/25.65	3.73
2	31.37	41.91	31.11/31.24	4.85
3	38.48	48.77	40.64/40.77	4.85

Accessories - Application of Cable Entry Fittings

Cable entry fittings

To assist in ordering the correct fittings for a specific cable, pages 48 to 50 illustrate complete outlet accessory sets for various sizes and types of cable. Accessory sets other than those shown in this catalogue may be supplied to order on consultation.

Sealing

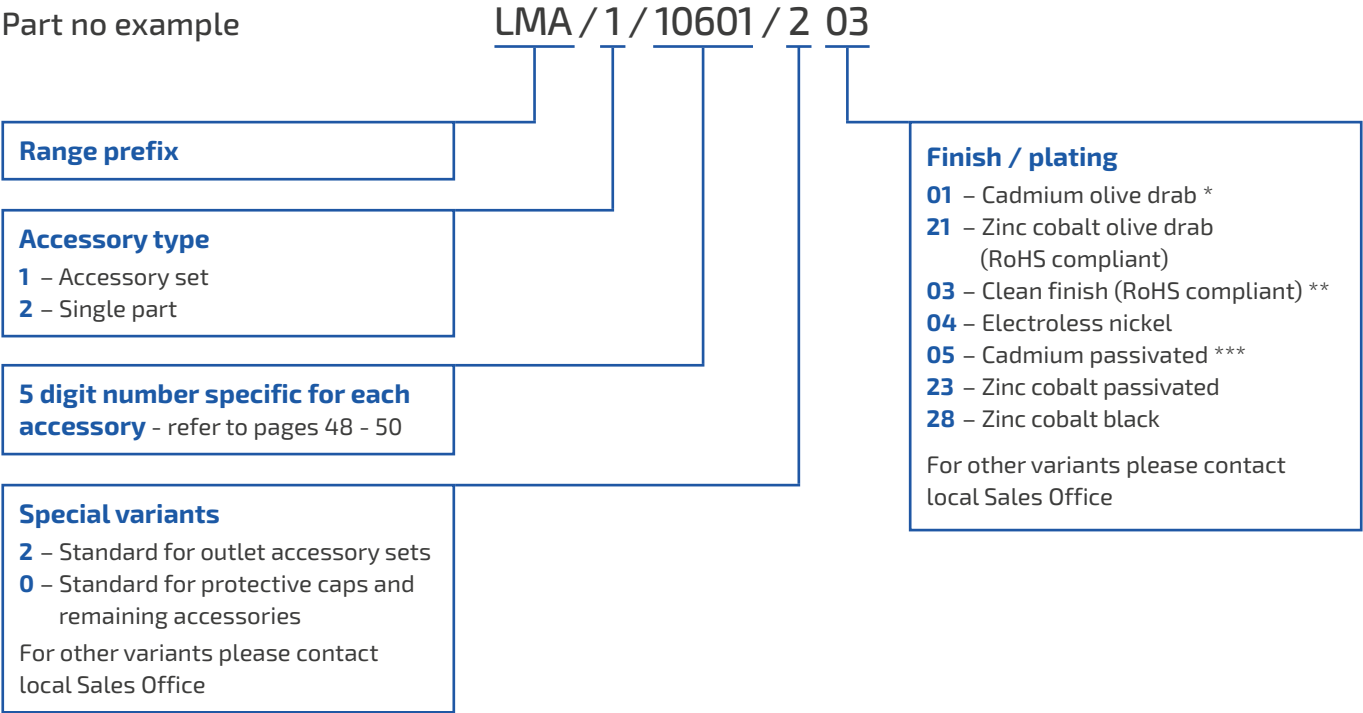
Cable entry fittings ensure sound sealing provided that the correct size of recommended fittings is used with each specific cable. Sealing is effected by either the union gasket or the sealing ring at the rear end of the outlet and by the outlet gasket at the front end. It may be necessary to increase the cable diameter to effect a seal at the rear end of the outlet.

Assembling

The special tools shown on page 59 should be used to tighten locking rings, outlet nuts, etc. Cable clamp jaws should be tightened sufficiently to grip the cable, but over-tightening may cause the dielectric to flow and impair its insulating qualities.

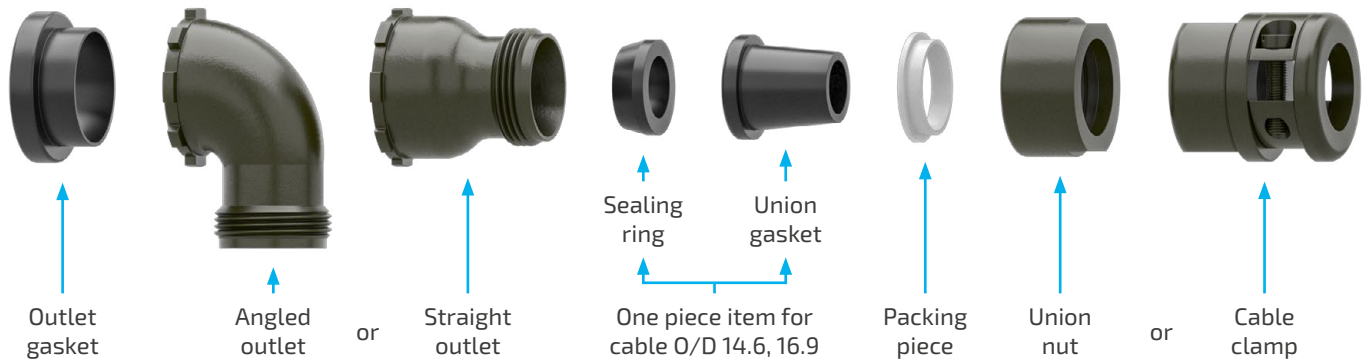


Accessories - Ordering Information



 * - Standard finish for Aluminium and Brass LMG connectors
** - Standard finish for Aluminium LMF connectors
*** - Standard finish for Brass LMF connectors

Outlet Accessory Set for Unscreened Multicore Cable



For assembly instruction see page 60. Where no min. cable O/D is shown, sleeve cable to max. O/D to achieve seal.

	Shell size	Cable O/D		Outlet accessory set with union nut		Outlet accessory set with cable clamp		Code
		Min	Max	Straight outlet	Right angled outlet	Straight outlet	Right angled outlet	
Aluminium	1	5.90	7.40	LMA/1/10601/2**	LMA/1/10505/2**	LMA/1/10625/2**	LMA/1/10529/2**	a
		7.50	8.90	LMA/1/10602/2**	LMA/1/10506/2**	LMA/1/10626/2**	LMA/1/10530/2**	b
		-	9.30 x 6.70	LMA/1/10603/2**	LMA/1/10507/2**	LMA/1/10627/2**	LMA/1/10531/2**	b
	2	5.90	7.40	LMA/1/10604/2**	LMA/1/10508/2**	LMA/1/10628/2**	LMA/1/10532/2**	c
		7.50	10.20	LMA/1/10605/2**	LMA/1/10509/2**	LMA/1/10629/2**	LMA/1/10533/2**	d
		8.80	11.20	LMA/1/10606/2**	LMA/1/10510/2**	LMA/1/10630/2**	LMA/1/10534/2**	e
		-	11.60	LMA/1/10607/2**	LMA/1/10511/2**	LMA/1/10631/2**	LMA/1/10535/2**	f
		-	13.10	LMA/1/10608/2**	LMA/1/10512/2**	LMA/1/10632/2**	LMA/1/10536/2**	f
		-	11.60	LMA/1/10609/2**	LMA/1/10513/2**	LMA/1/10633/2**	LMA/1/10537/2**	g
	3	-	13.10	LMA/1/10610/2**	LMA/1/10514/2**	LMA/1/10634/2**	LMA/1/10538/2**	g
		-	17.60	LMA/1/10611/2**	LMA/1/10515/2**	LMA/1/10635/2**	LMA/1/10539/2**	h
		14.60	17.40	LMA/1/30040/2**	LMA/1/30044/2**	-	-	h
		-	17.60	LMA/1/10612/2**	LMA/1/10516/2**	LMA/1/10636/2**	LMA/1/10540/2**	i
		14.60	17.40	LMA/1/30041/2**	LMA/1/30045/2**	-	-	i
Brass	1	5.90	7.40	LMA/1/10613/2**	LMA/1/10517/2**	LMA/1/10637/2**	LMA/1/10541/2**	a
		7.50	8.90	LMA/1/10614/2**	LMA/1/10518/2**	LMA/1/10638/2**	LMA/1/10542/2**	b
		-	9.30 x 6.70	LMA/1/10615/2**	LMA/1/10519/2**	LMA/1/10639/2**	LMA/1/10543/2**	b
	2	5.90	7.40	LMA/1/10616/2**	LMA/1/10520/2**	LMA/1/10640/2**	LMA/1/10544/2**	c
		7.50	10.20	LMA/1/10617/2**	LMA/1/10521/2**	LMA/1/10641/2**	LMA/1/10545/2**	d
		8.80	11.20	LMA/1/10618/2**	LMA/1/10522/2**	LMA/1/10642/2**	LMA/1/10546/2**	e
		-	11.60	LMA/1/10619/2**	-	LMA/1/10643/2**	-	f
		-	13.10	LMA/1/10620/2**	-	LMA/1/10644/2**	-	f
		-	11.60	LMA/1/10621/2**	LMA/1/10525/2**	LMA/1/10645/2**	LMA/1/10549/2**	g
	3	-	13.10	LMA/1/10622/2**	LMA/1/10526/2**	LMA/1/10646/2**	LMA/1/10550/2**	g
		-	17.60	LMA/1/10623/2**	LMA/1/10527/2**	LMA/1/10647/2**	LMA/1/10551/2**	h
		14.60	17.40	LMA/1/30042/2**	LMA/1/30046/2**	-	-	h
		-	17.60	LMA/1/10624/2**	LMA/1/10528/2**	LMA/1/10648/2**	LMA/1/10552/2**	i
		14.60	17.40	LMA/1/30043/2**	LMA/1/30047/2**	-	-	i

! Use this chart to select the correct accessory set to suit the type and size of cable and shell size of connector being used.

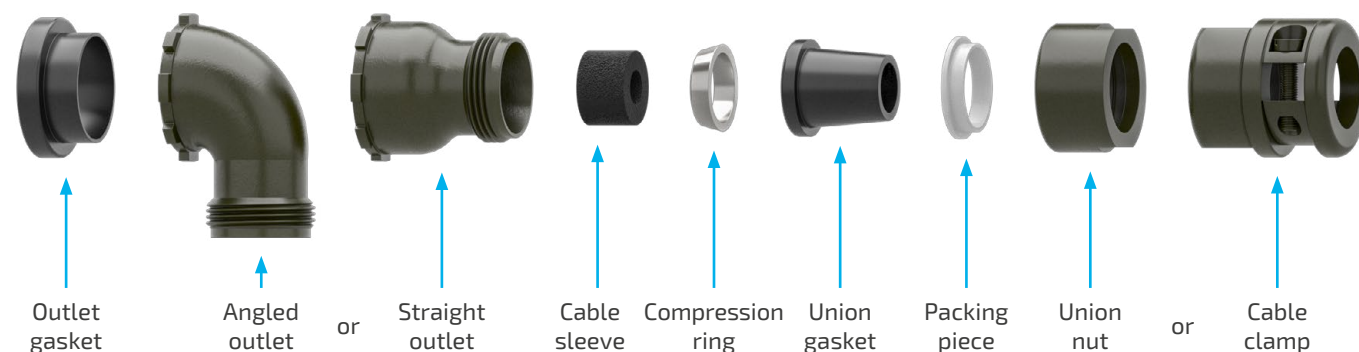
** Final figures of suffix must be added to the part number when ordering:

- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
- **03** – Clean finish, standard for Aluminium LMF connectors
- **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Outlet Accessory Set for Screened Multicore Cable

For use with multicore cables with an inner collective screen, or cables with individually screened cores and no collective screen.



For assembly instruction see page 61. Where no min. cable O/D is shown, sleeve cable to max. O/D to achieve seal.

	Shell size	Cable O/D		Outlet accessory set with union nut		Outlet accessory set with cable clamp		Code
		Min	Max	Straight outlet	Right angled outlet	Straight outlet	Right angled outlet	
Aluminium	1	5.90	7.40	LMA/1/08033/2**	LMA/1/08044/2**	LMA/1/13455/2**	LMA/1/13431/2**	a
		7.50	8.90	LMA/1/08035/2**	LMA/1/08046/2**	LMA/1/13456/2**	LMA/1/13432/2**	b
		-	9.30 x 6.70	LMA/1/08034/2**	LMA/1/08045/2**	LMA/1/13457/2**	LMA/1/13433/2**	b
	2	5.90	7.40	LMA/1/08036/2**	LMA/1/08047/2**	LMA/1/13458/2**	LMA/1/13434/2**	c
		7.50	10.20	LMA/1/08037/2**	LMA/1/08048/2**	LMA/1/13459/2**	LMA/1/13435/2**	d
		8.80	11.20	LMA/1/08038/2**	LMA/1/08049/2**	LMA/1/13460/2**	LMA/1/13436/2**	e
		-	11.60	LMA/1/08039/2**	LMA/1/08050/2**	LMA/1/13461/2**	LMA/1/13437/2**	f
		-	13.10	LMA/1/08040/2**	LMA/1/08051/2**	LMA/1/13462/2**	LMA/1/13438/2**	f
		-	11.60	LMA/1/08041/2**	LMA/1/08052/2**	LMA/1/13463/2**	LMA/1/13439/2**	g
	3	-	13.10	LMA/1/08042/2**	LMA/1/08053/2**	LMA/1/13464/2**	LMA/1/13440/2**	g
		-	17.60	LMA/1/08043/2**	LMA/1/13429/2**	LMA/1/13465/2**	LMA/1/13441/2**	h
		14.60	17.40	LMA/1/30064/2**	LMA/1/30068/2**	-	-	h
		-	17.60	LMA/1/13454/2**	LMA/1/13430/2**	LMA/1/13466/2**	LMA/1/13442/2**	i
		14.60	17.40	LMA/1/30065/2**	LMA/1/30069/2**	-	-	i
Brass	1	5.90	7.40	LMA/1/13492/2**	LMA/1/13467/2**	LMA/1/13504/2**	LMA/1/13480/2**	a
		7.50	8.90	LMA/1/13493/2**	LMA/1/13468/2**	LMA/1/13505/2**	LMA/1/13481/2**	b
		-	9.30 x 6.70	LMA/1/13494/2**	LMA/1/13469/2**	LMA/1/13506/2**	LMA/1/13482/2**	b
	2	5.90	7.40	LMA/1/13495/2**	LMA/1/13470/2**	LMA/1/13507/2**	LMA/1/13483/2**	c
		7.50	10.20	LMA/1/13496/2**	LMA/1/13471/2**	LMA/1/13508/2**	LMA/1/13484/2**	d
		8.80	11.20	LMA/1/13497/2**	LMA/1/13472/2**	LMA/1/13509/2**	LMA/1/13485/2**	e
		-	11.60	LMA/1/13498/2**	-	LMA/1/13510/2**	-	f
		-	13.10	LMA/1/13499/2**	-	LMA/1/13511/2**	-	f
		-	11.60	LMA/1/13500/2**	LMA/1/13475/2**	LMA/1/13512/2**	LMA/1/13488/2**	g
	3	-	13.10	LMA/1/13501/2**	LMA/1/13476/2**	LMA/1/13513/2**	LMA/1/13489/2**	g
		-	17.60	LMA/1/13502/2**	LMA/1/13477/2**	LMA/1/13514/2**	LMA/1/13490/2**	h
		14.60	17.40	LMA/1/30066/2**	LMA/1/30070/2**	-	-	h
		-	17.60	LMA/1/13503/2**	LMA/1/13478/2**	LMA/1/13515/2**	LMA/1/13491/2**	i
		14.60	17.40	LMA/1/30067/2**	LMA/1/30071/2**	-	-	i

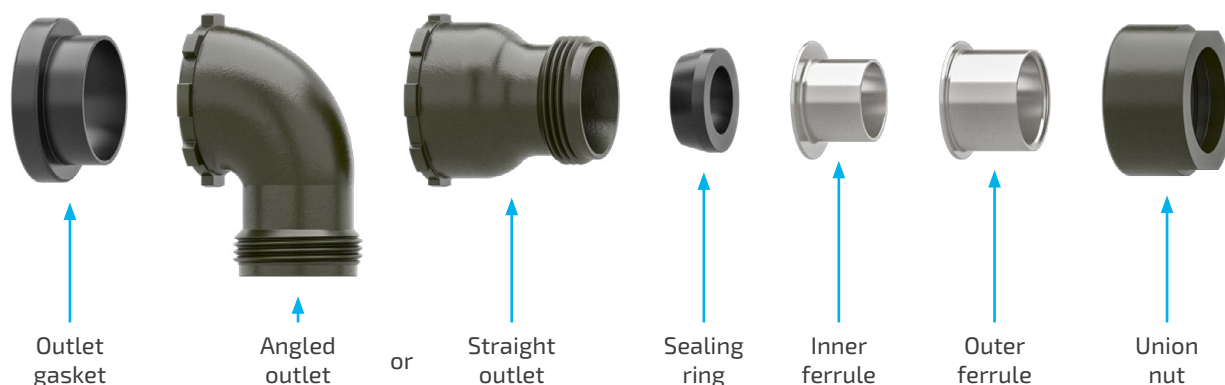
 Use this chart to select the correct accessory set to suit the type and size of cable and shell size of connector being used.

** Final figures of suffix must be added to the part number when ordering:

- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
- **03** – Clean finish, standard for Aluminium LMF connectors
- **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Outlet Accessory Set for Multicore Cable with Outer Screen (over insulation)



For assembly instruction see page 62.

	Shell size	Cable O/D		Outlet accessory set with		Code
		Min	Max	Straight outlet	Right angled outlet	
Aluminium	1	7.10	9.40	LMA/1/02742/2**	LMA/1/02759/2**	a
	2	7.10	9.40	LMA/1/02746/2**	LMA/1/02763/2**	c
		9.90	11.70	LMA/1/02748/2**	LMA/1/02765/2**	d
		11.40	12.20	LMA/1/02750/2**	LMA/1/02767/2**	e
		13.50	14.60	LMA/1/02753/2**	LMA/1/02770/2**	f
		13.50	14.60	LMA/1/02756/2**	LMA/1/02773/2**	g
	3	11.70	13.50	LMA/1/02754/2**	LMA/1/02771/2**	g
		13.50	14.60	LMA/1/02756/2**	LMA/1/02773/2**	g
		17.40	19.30	LMA/1/02757/2**	LMA/1/02774/2**	h
		17.40	19.30	LMA/1/02911/2**	LMA/1/02775/2**	i
Brass	1	7.10	9.40	LMA/1/02915/2**	LMA/1/02932/2**	a
	2	7.10	9.40	LMA/1/02919/2**	LMA/1/02936/2**	c
		9.90	11.70	LMA/1/02921/2**	LMA/1/02938/2**	d
		11.40	12.20	LMA/1/02923/2**	-	e
		13.50	14.60	LMA/1/02926/2**	-	f
		13.50	14.60	LMA/1/02929/2**	LMA/1/02946/2**	g
	3	11.70	13.50	LMA/1/02927/2**	LMA/1/02944/2**	g
		13.50	14.60	LMA/1/02929/2**	LMA/1/02946/2**	g
		17.40	19.30	LMA/1/02905/2**	LMA/1/03100/2**	h
		17.40	19.30	LMA/1/02930/2**	LMA/1/02947/2**	i

 Use this chart to select the correct accessory set to suit the type and size of cable and shell size of connector being used.

** Final figures of suffix must be added to the part number when ordering:

- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
- **03** – Clean finish, standard for Aluminium LMF connectors
- **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Outlet Nuts and Mounting Kits

Outlet nuts for use with LMF and LMG connectors on aluminium and brass free units, brass free couplers and brass fixed units (square flange)				
	Shell size	Aluminium part number	Brass part number	Thread dia. x 26 T.P.I.
	1	LMA/2/07519/0**	LMA/2/07569/0**	0.7969"
	2	LMA/2/07520/0**	LMA/2/07570/0**	1.0156"
	3	LMA/2/07521/0**	LMA/2/07571/0**	1.4062"

Outlet nuts for use with LMF connectors only on aluminium free couplers and aluminium fixed units with outlet nut			
	Shell size	Part number	Thread dia. x 26 T.P.I.
	1	LMA/2/40978/0**	0.9687"
	2	LMA/2/40980/0**	1.1875"
	3	LMA/2/40981/0**	1.5625"

Outlet nuts for use with LMG connectors only on aluminium free couplers and aluminium and brass fixed units (round flange)				
	Shell size	Aluminium part number	Brass part number	Thread dia. x 26 T.P.I.
	1	LMA/2/07531/0**	LMA/2/07157/0**	0.8437"
	2	LMA/2/07532/0**	LMA/2/07158/0**	1.0625"
	3	LMA/2/07533/0**	LMA/2/07159/0**	1.4375"

** Final figures of suffix must be added to the part number when ordering:

- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
- **03** – Clean finish, standard for Aluminium LMF connectors
- **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Protective Caps for Aluminium LMF and LMG Connectors (Fine Thread)

For free plugs or sockets



Shell size	Code	Part number
1	a b	LMA/1/03437/0**
2	c d	LMA/1/03438/0**
	e f	LMA/1/03439/0**
3	g	LMA/1/03440/0**
	h i	LMA/1/03441/0**

For free coupler plugs or sockets



Shell size	Code	Part number
1	a b	LMA/1/03452/0**
2	c d	LMA/1/03453/0**
	e f	LMA/1/03454/0**
3	g	LMA/1/03455/0**
	h i	LMA/1/03456/0**

- ** Final figures of suffix must be added to the part number when ordering:
- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
 - **03** – Clean finish, standard for Aluminium LMF connectors
 - **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Protective Caps for Aluminium LMF and LMG Connectors (Fine Thread)

For fixed plugs or sockets



Shell size	Part number
1	LMA/1/03442/0**
2	LMA/1/03443/0**
3	LMA/1/03444/0**

Polythene cap only for fixed plugs or sockets, free coupler plugs or sockets



Shell size	Part number
1	LMA/2/41303
2	LMA/2/41304
3	LMA/2/41305

** Final figures of suffix must be added to the part number when ordering:

- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
- **03** – Clean finish, standard for Aluminium LMF connectors
- **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Protective Caps for Brass LMF and LMG Connectors (Fine Thread)

For free plugs or sockets



Shell size	Code	Part number
1	a b	LMA/1/04111/0**
2	c d	LMA/1/04112/0**
	e f	LMA/1/04113/0**
3	g	LMA/1/04114/0**
	h i	LMA/1/04115/0**

For free coupler plugs or sockets



Shell size	Code	Part number
1	a b	LMA/1/04124/0**
2	c d	LMA/1/04125/0**
	e f	LMA/1/04126/0**
3	g	LMA/1/04127/0**
	h i	LMA/1/04128/0**

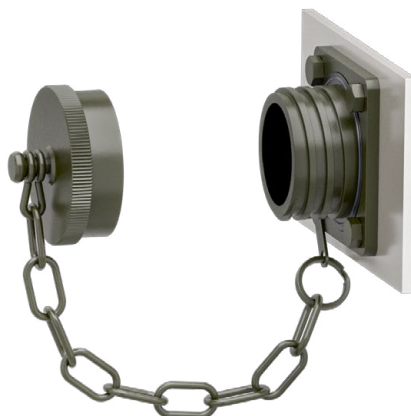
** Final figures of suffix must be added to the part number when ordering:

- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
- **03** – Clean finish, standard for Aluminium LMF connectors
- **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Protective Caps for Brass LMF and LMG Connectors (Fine Thread)

For fixed square flange plugs or sockets



Shell size	Part number
1	LMA/1/04116/0**
2	LMA/1/04117/0**
3	LMA/1/04118/0**

For fixed round flange plugs or sockets



Shell size	Part number
1	LMA/1/41208/0**
2	LMA/1/41209/0**
3	LMA/1/41210/0**

** Final figures of suffix must be added to the part number when ordering:

- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
- **03** – Clean finish, standard for Aluminium LMF connectors
- **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Protective Caps (Polythene) for Brass Range (Coarse Thread)

For free plugs or sockets



Shell size	Code	Assembly part number	Polythene cap only
1	a b	LMA/1/41150/0**	LMA/2/41172
2	c d	LMA/1/41153/0**	LMA/2/41173
	e f	LMA/1/41151/0**	
3	g	LMA/1/41154/0**	LMA/2/41174
	h i	LMA/1/41152/0**	

For free coupler plugs or sockets



Shell size	Code	Assembly part number	Polythene cap only
1	a b	LMA/1/04119/0**	LMA/2/41181
2	c d	LMA/1/04120/0**	LMA/2/41182
	e f	LMA/1/04121/0**	
3	g	LMA/1/04122/0**	LMA/2/41183
	h i	LMA/1/04123/0**	

- ** Final figures of suffix must be added to the part number when ordering:
- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
 - **03** – Clean finish, standard for Aluminium LMF connectors
 - **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Protective Caps (Polythene) for Brass Range (Coarse Thread)

For fixed square flange plugs or sockets



Shell size	Assembly part number	Polythene cap only
1	LMA/1/41160/0**	LMA/2/41181
2	LMA/1/41161/0**	LMA/2/41182
3	LMA/1/41162/0**	LMA/2/41183

For fixed round flange plugs or sockets



Shell size	Assembly part number	Polythene cap only
1	LMA/1/41198/0**	LMA/2/41181
2	LMA/1/41199/0**	LMA/2/41182
3	LMA/1/41200/0**	LMA/2/41183

** Final figures of suffix must be added to the part number when ordering:

- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
- **03** – Clean finish, standard for Aluminium LMF connectors
- **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Conduit Adaptors

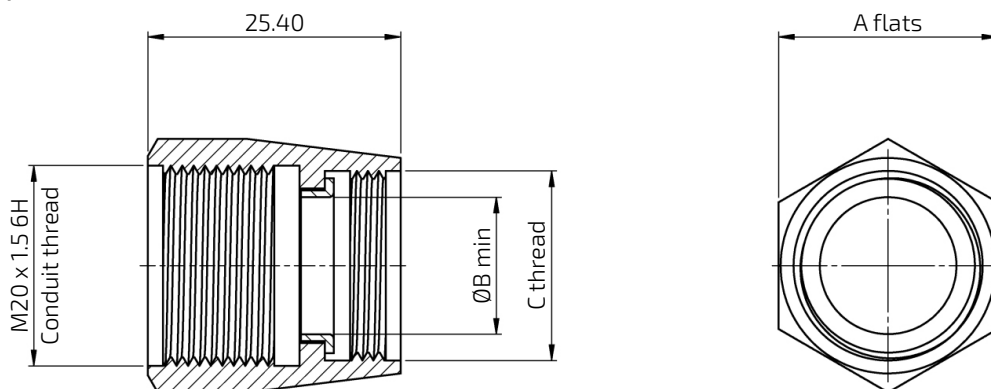
A limited range of brass conduit adaptors which provide the facility to terminate 20 mm conduit to standard LMF or LMG connectors with straight or right angled outlets.

Accessory Set



Shell size	Ø cable max.	Straight outlet	Right angled outlet	Code
1	11.30	LMA/1/80102/2**	LMA/1/80105/2**	b
2	13.60	LMA/1/80103/2**	LMA/1/80106/2**	e
3	15.90	LMA/1/80104/2**	LMA/1/80107/2**	g

Conduit Adaptor



Shell size	Part number	A	B min	Right angled outlet	Code
1	LMA/1/80099/0**	22.00	11.30	0.6406"	b
2	LMA/1/80100/0**	22.00	13.59	0.7344"	e
3	LMA/1/80101/0**	25.00	15.87	0.8437"	g

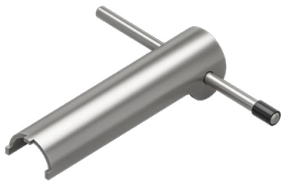
** Final figures of suffix must be added to the part number when ordering:

- **01** – Cadmium olive drab, standard for Aluminium and Brass LMG connectors
- **03** – Clean finish, standard for Aluminium LMF connectors
- **05** – Cadmium passivated, standard for Brass LMF connectors

For other plating options refer to page 47.

Assembly Tooling

Required for locking cable entry fittings and for mounting fixed units to panels.

Special spanner and tommy bar		
	Tool	Part number
	Special spanner - shell size 1	LMT/2/00574
	Special spanner - shell size 2	LMT/2/00575
	Special spanner - shell size 3	LMT/2/00576
	Used on fixed units, including bulkheads, to facilitate tightening of panel locking rings	
	Tommy bar special spanner	LMT/2/00573
Used with special spanner (as shown)		

Double ended spanner		
	Tool	Part number
	Double ended spanner - shell size 1	LMT/2/00564
	Double ended spanner - shell size 2	LMT/2/00565
	Double ended spanner - shell size 3	LMT/2/00566
	Used in conjunction with body holder to facilitate tightening of outlet nuts and panel locking rings	

Body holder		
	Tool	Part number
	Bodyholder - shell size 1	LMT/1/00261
	Bodyholder - shell size 2	LMT/1/00262
	Bodyholder - shell size 3	LMT/1/00263
	Used in conjunction with double ended spanner - locates on front face of connectors	

Connector Wiring Instructions

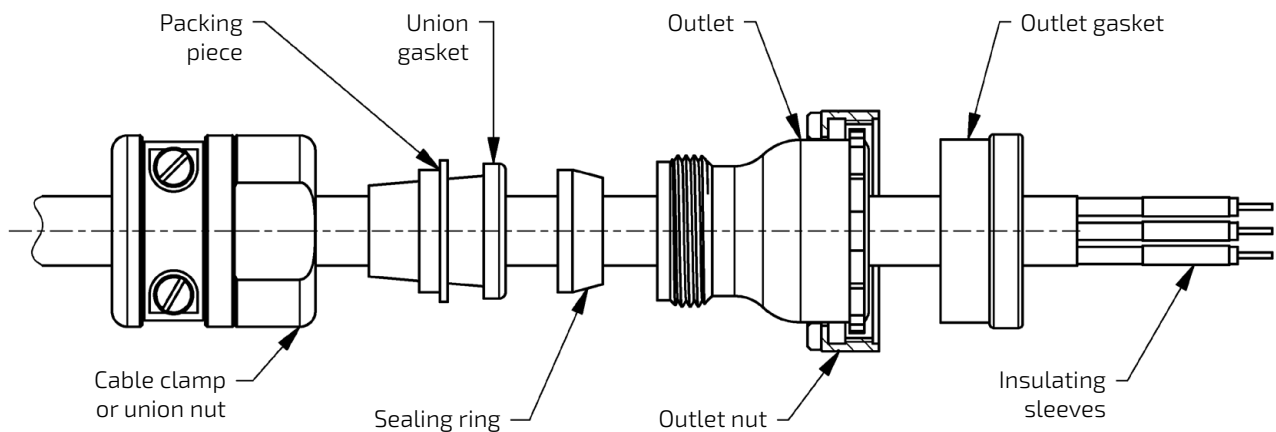
Using Unscreened Multicore Cable

1. Strip back outer sheath.

Strip insulation from each conductor and tin dip.

Thread on to cable: union nut/cable clamp, thrust ring (or packing piece), union gasket, outlet nut, outlet and outlet gasket.

Fit insulation sleeves to conductors.



2. Solder conductors to connector contacts.

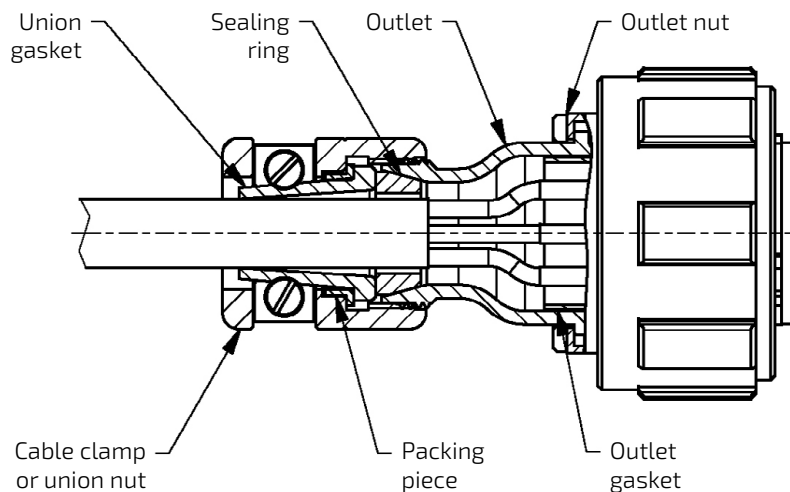
Slide insulation sleeves over solder joints.

Position outlet gasket and outlet at rear of connector and secure with outlet nut.

Slide union gasket into neck of outlet.

Screw clamp on to outlet.

Secure union nut/cable clamp to cable by screwing down clamp jaw.

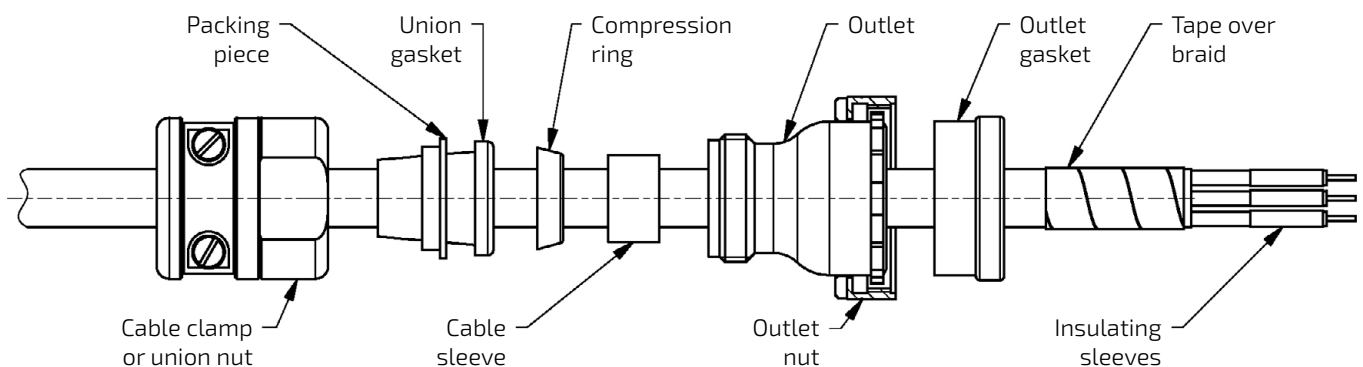


Connector Wiring Instructions

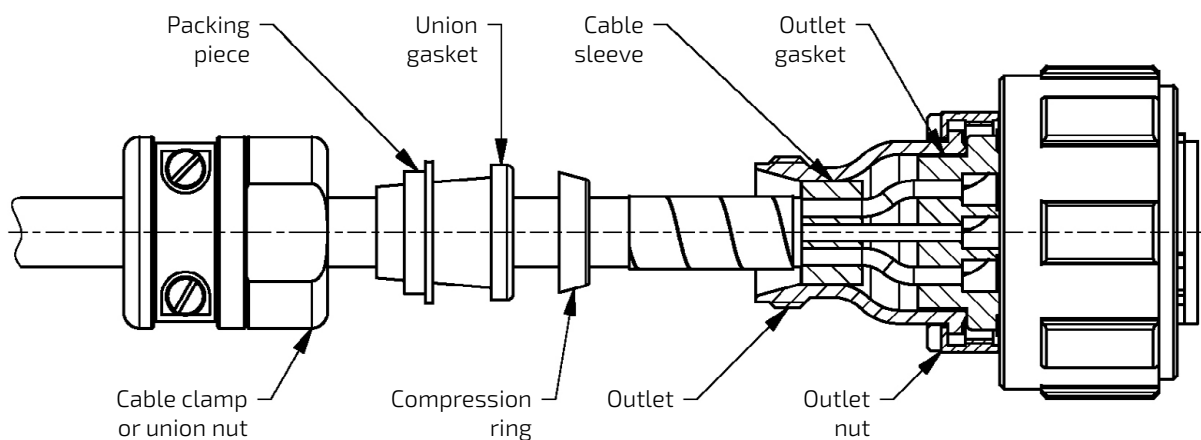
Using Screened Multicore Cable

1. Strip outer sheath and braid. Thread on union nut/cable clamp, thrust ring (or packing piece), union gasket (see note), compression ring and cable sleeve. Comb out metal braid, fold back over sheath and tape down. Strip insulation from conductors and tin dip. Thread on outlet nut, outlet, and outlet gasket. Fit insulating sleeves to each conductor.

NOTE: Union gasket requires to be a close fit to cable sheath. Synthetic rubber sleeve/s to be fitted to achieve a satisfactory fit.



2. Solder conductors to connector contacts and slide insulating sleeves over soldered joints. Position outlet gasket and outlet at rear of connector and secure with outlet nut. Slide cable sleeve into neck of outlet.



Continued on next page →

Connector Wiring Instructions

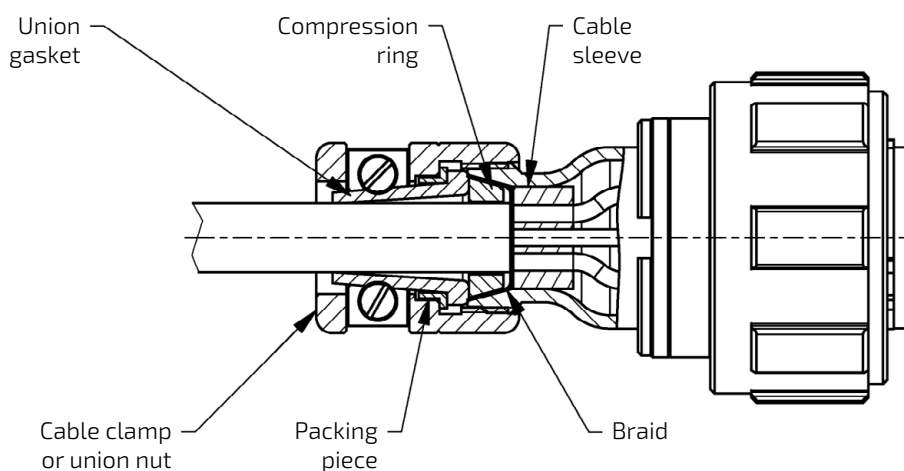
Using Screened Multicore Cable

3. Remove tape from metal braid and fan out 90° to cable.

Position compression ring on end of outer sheath trapping braid between outlet and compressions ring.

Slide forward union gasket and thrust ring to rear of compression ring.

Trim off braid, to rear face of compression ring and screw union nut/cable clamp onto outlet.



Using multicore cable with outer screen (over insulation)

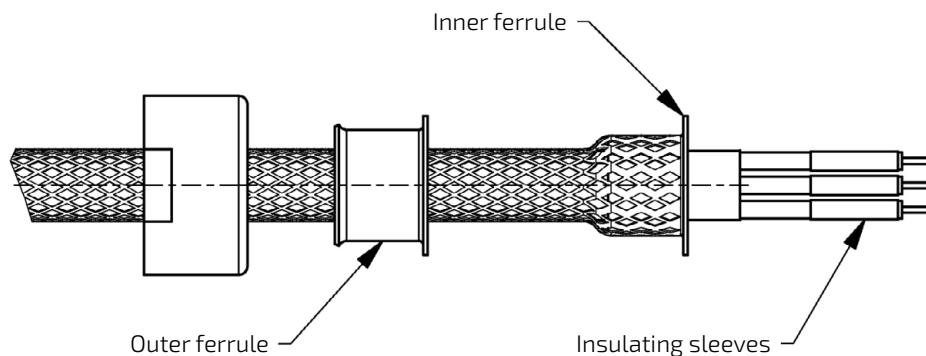
1. Strip back braid and sheath.

Strip insulation from conductors and tin dip.

Thread on union nut and outer ferrule.

Thread on inner ferrule and position under braid.

Fit insulating sleeves to each conductor.



Continued on next page →

Connector Wiring Instructions

Multicore cable with outer screen (over insulation)

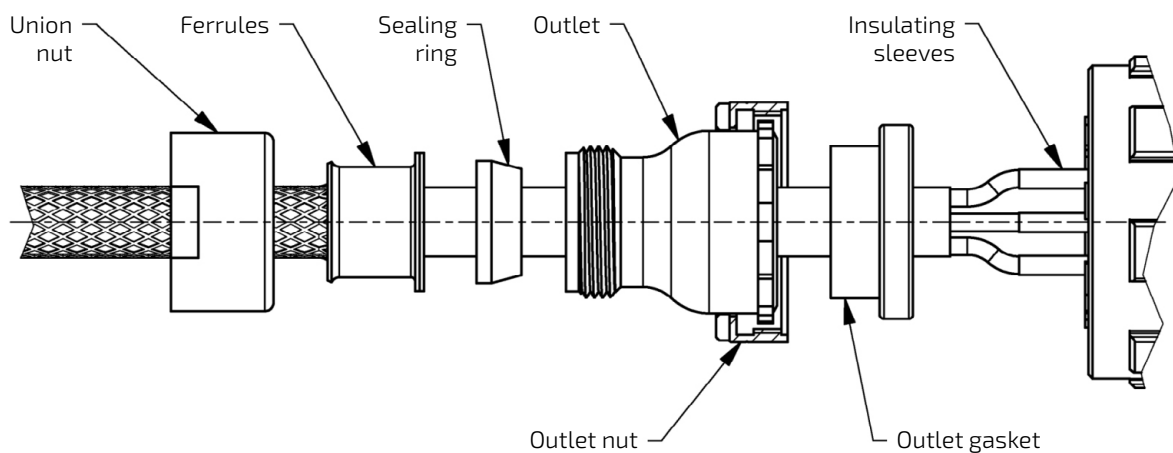
2. Force outer ferrule over inner ferrule and braid.

Trim off any braid which may protrude between ferrule flanges.

Compress the braid back down cable.

Thread on sealing ring, outlet nut, outlet and outlet gasket.

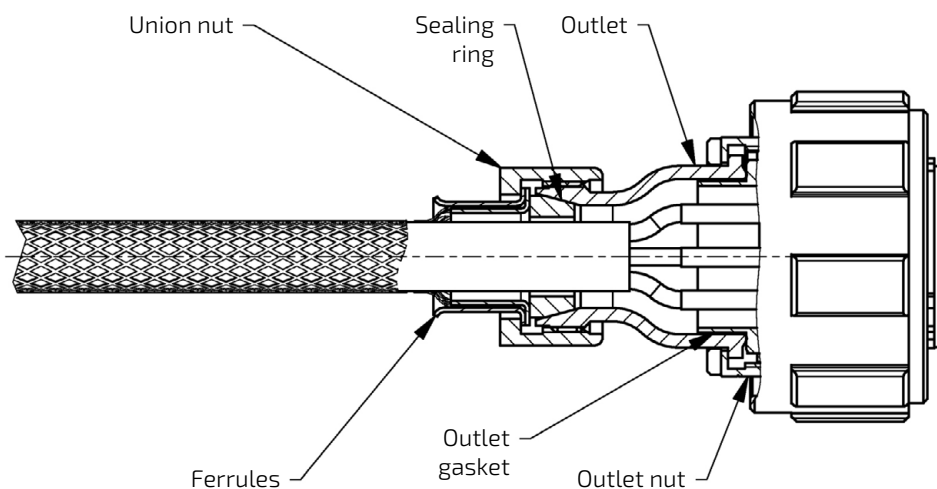
Solder conductors to connector contacts and slide insulation sleeves over joints.



3. Position outlet gasket and outlet at rear of connector and secure with outlet nut.

Slide sealing ring into neck of outlet.

Pull forward ferrules and braid, secure with union nut.



Product Safety Information

These notes are intended to be used in conjunction with the Product Catalogue and Product Specification. Products may be safely used in the applications for which they have been designed and within the specified rating and environments. If products are exposed to conditions outside the performance ratings or specified environments they may constitute a hazard. In particular it should be noted that:

1. Material Content

Circular Connectors generally use metalwork parts made of brass, aluminium, phosphor-bronze or steel, which, dependant on the particular application, may be passivated and protected with cadmium or zinc plate – in conjunction with chromated or anodised surface finishes. The insulating materials can either be natural or synthetic rubber, together with plastic or glass-filled plastic moulded parts. Contact materials vary but are usually made of brass, phosphor-bronze, alumei or chromel.

2. Electric Shock, Burns and Fire

Hazard can occur if the product is used outside the specified parameters or if the product is damaged, wrongly wired, poorly assembled, poorly integrated into larger equipments, or contaminated with conductive fluids. Live circuit terminations must be protected and live circuits never broken by disconnecting products.

Hot spots may be created when resistance is increased due to damage or incorrect integration particularly soldering, or loose terminations. Overheating can cause breakdown of insulation, electric shock, burns or, ultimately, fire. In the event of fire noxious and/or toxic fumes may be released and, in these circumstances, any fire involving the product should be dealt with by personnel properly equipped. Connectors with exposed terminations or contacts should not be used on the current supply side of a circuit with exposed contacts on an unmated product. Before making a circuit live, the product and wiring should be checked to ensure there is no electrically conducting debris present. Circuit resistance checks should also be conducted before making the circuit live. Always ensure that connectors are assembled and wired by properly trained personnel.

3. Use, Transport and Storage of Products

Care must be exercised to avoid damage to any part of the products during transporting, storage or use. Abnormal transit or storage conditions and abuse during installation can give rise to damage. Products should not be used in a damaged condition.

Improper storage (particularly of damaged products) can give rise to additional hazards particularly corrosion. Attention is specifically drawn to the need for proper storage of products containing cadmium and you are advised to see the Guidance Note from the Health and safety Executive on Cadmium – Health and Safety Precautions.

4. Disposal of Products

Product should not be burnt.

Safety Rules

- Follow the guidelines given
- Always protect live circuits and never disconnect a live connector
- Never use a damaged connector
- Never burn discarded connectors

Lodge Group

FC Lane Electronics Ltd	Weald Electronics Ltd	Lane Motorsport
Franchised connector distributor	Manufacturers of high quality connectors and accessories	Division of FC Lane dedicated to motorsport industry
+44 (0) 1403 790 661 fclane.com	+44 (0) 1403 790 715 wealdelectronics.com	+44 (0) 1403 790 661 lanemotorsport.com
		