

MC4 DUPLEX FIBRE OPTIC CONNECTOR

The MC4 Duplex optical fibre connector is based upon shell size 9 Mil-C 38999 Series III making this an extremely compact environmentally sealed 2-way connector. The MC4 is suitable for use with most multimode fibres with core diameters of 50 to 200µm. Simplex and duplex cable constructions can be accommodated with suitable connector backshells.

Precision ceramic ferrules and alignment sleeves ensure optimum performance and reliability over an extended service life.

The optical ferrules are sprung loaded in both the plug and receptacle shells. This provides an axial load equalisation ensuring that butt joint contact is maintained even when the connector is subjected to vibration levels in excess of 30g.

The coupling nut has a built in antivibration clicker mechanism to prevent inadvertent uncoupling under adverse vibration conditions.

Specification

Optical

Attenuation:	Less than 0.4dB (50/125µm)
Repeatability:	Better than 0.2dB
Fibre types:	50, 62.5, 85/125µm 100/140µm 200/280µm

Cable Types

Tight jacket 2.5mm dia
Duplex 4.5mm OD
For other cable sizes consult Technical Sales

Materials

Shell:	Aluminium alloy. Nickel plated
Ferrule:	Zirconia
Alignment sleeve:	Zirconia
Seals:	Fluorosilicone
Backshells:	Aluminium alloy. Nickel plated

Mechanical

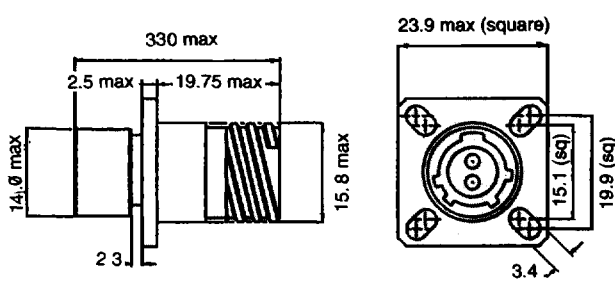
Temperature range: -65°C to +155°C*

*Cable and epoxy dependant

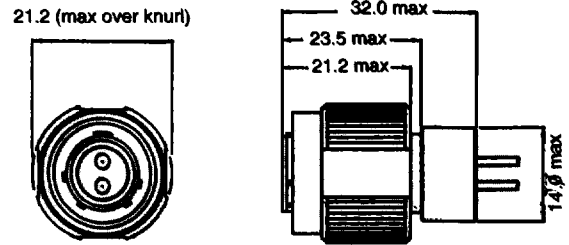
Mechanical endurance: not less than 500 matings



Dimensional Specifications



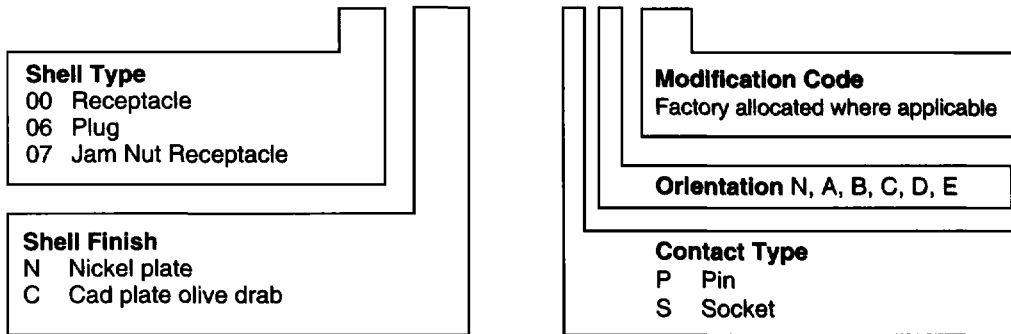
MC400E-* -09-02 ** Receptacle



MC406E-* -09-02 ** Plug

How to Order

MC4 **E - * -09-02 * * - * * *



Termination Tools and Consumables

Part Number	Description	
454335	Fibre stripping tool (Hozan)	
453228	Fibre cleaving tool	
454342	Crimp tool	
454899	Polishing jig	
454487	Rubber Pads (4 required)	
454539	Lapping film set	
	comprises:-	
454481	Coarse disc (10 off)	} These items are available separately
454482	DR diamond disc	
454483	DM diamond disc	
454484	Polishing disc (10 off)	
454257	Epoxy kit (353ND)	
450490	Spatula	
454297	Syringe (x6)	

Ferrule Selection Chart

NB *Not supplied with connector

Part Number	Fibre Size
454900-126	125µm
454900-141	} 140µm
454900-145	
454900-283	280µm

For further information contact technical sales

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