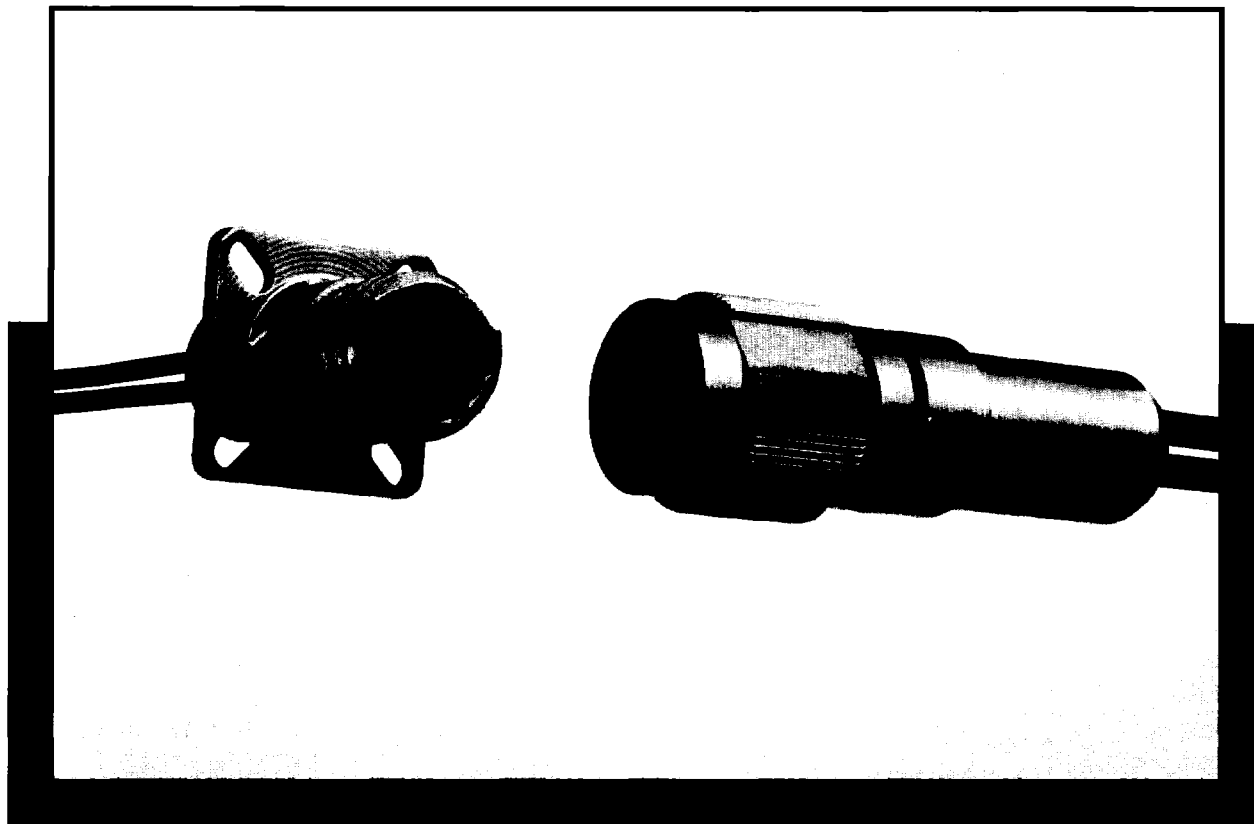




MC4 DUPLEX FIBRE OPTIC CONNECTOR

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 200 μ m. 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 (50/125 μ m)
Repeatability:	Better than 0.2dB
Fibre types:	50, 62.5, 85/125 μ m 100/140 μ m 200/280 μ m

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

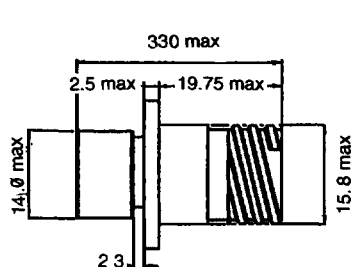
Temperature range: -65°C to +155°C*

*Cable and epoxy dependant

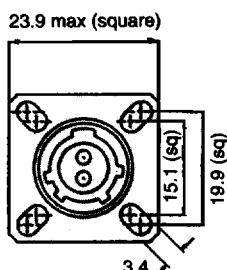
Mechanical endurance: not less than 500 matings



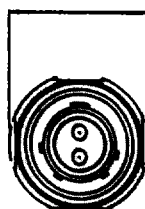
Dimensional Specifications



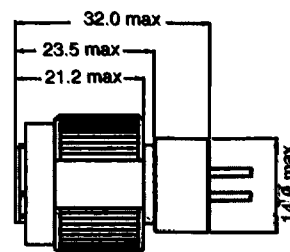
MC400E-* -09-02 ** Receptacle



21.2 (max over knurl)



MC406E-* -09-02 ** Plug



How to Order

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

Shell Type

- 00 Receptacle
- 06 Plug
- 07 Jam Nut Receptacle

Shell Finish

- N Nickel plate
- C Cad plate olive drab

Modification Code

Factory allocated where applicable

Orientation N, A, B, C, D, E

Contact Type

- P Pin
- S Socket

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)
454482	DR diamond disc
454483	DM diamond disc
454484	Polishing disc (10 off)
454257	Epoxy kit (353ND)
450490	Spatula
454297	Syringe (x6)

These items are available separately

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

PDS 3/92



DEUTSCH
LTD

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