

MC6 - Fibre Optic Ribbon Cable Connector

The Deutsch high density, fibre optic connector series is now further enhanced with the option for industry standard MT Ferrule inserts. The insert accommodates 2 to 72 channels and can be supplied pre-terminated if required.

The MC6 uses the compact MIL-C-38999 Series III, shell size 11 body, also used on the proven Deutsch MC5 connector. It has a lightweight, corrosion resistant, metal-plated composite shell which provides high strength and durability, combined with EMC shielding. The result is a very compact, rugged, environmentally sealed solution for a wide range of applications, such as avionics, data bus and in-flight entertainment systems.



Key Features

- Common contact single or multimode MT ferrules MIL-C-38999 Series III anti-vibration coupling with tri-start thread
- Easily accessible Angled Physical Contact (APC) and Physical Contact (PC) faces for cleaning and maintenance
- Rear release contact using size 8 extraction tools Retrofit triple rear seal available
- Colour band indicating full mating
- The use of industry standard MT interface and a variety of housing options ensures integration into new and existing systems
- Interchangeable with MIL-C-38999 Series III

General Specification

Fibre Type:	
Channels:	2 to 72
Cable Size:	
	Telecom grade cable Aerospace grade cable
Materials:	
Shell:	Composite (MIL-C-38999)
Contact Body:	Nickel/cadmium plated composite polymer
Ferrule:	Thermoplastic
Alignment Pin:	
Seals:	Fluorosilicone
Plating:	Nickel

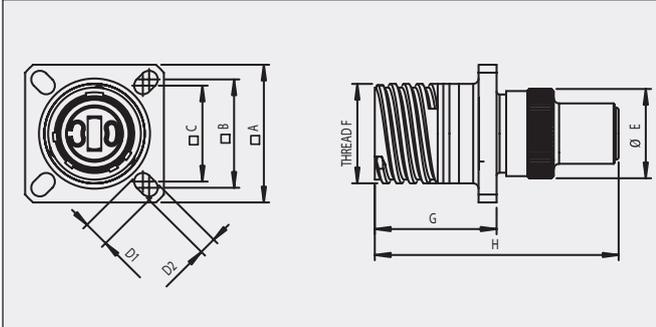
Optical Performance

For more information contact technical sales on +44 (0) 1424 858358 or fibre@deutsch.net

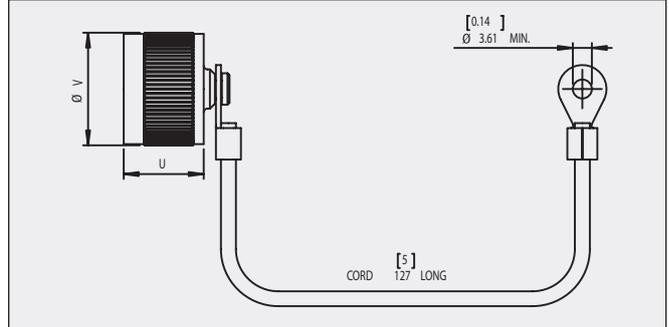
Dimensional Information

All dimensions in millimeters unless otherwise stated. To complete part number for ordering see Ordering Information.

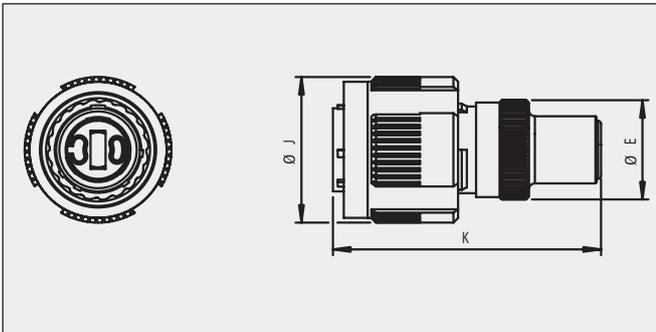
MC6 Receptacle



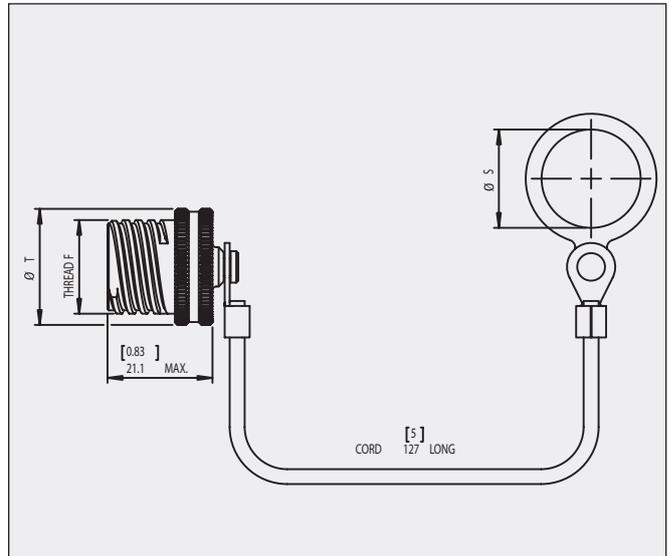
Protective Cap Receptacle MC640E-N-11



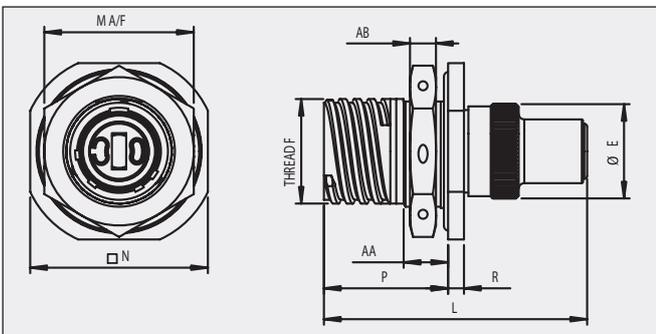
MC6 Plug



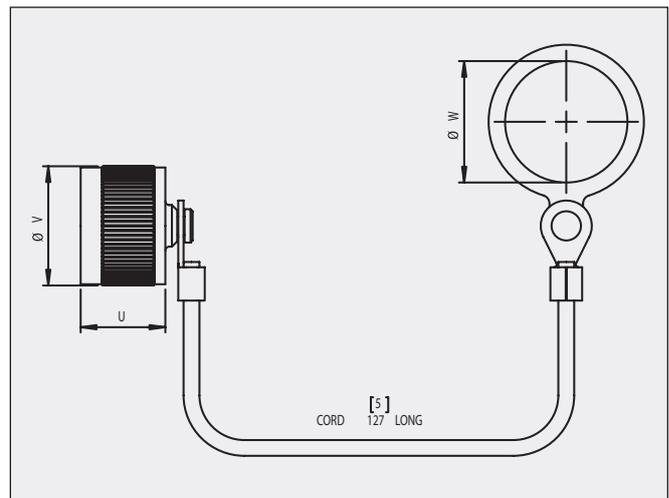
Procap Plug MC620E-N-11



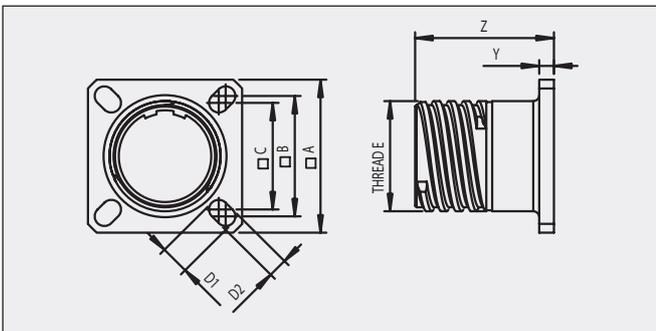
Jam Nut



Protective Cap Receptacle



Dummy Receptacle MC630E-N-11



Contact and Tooling Information

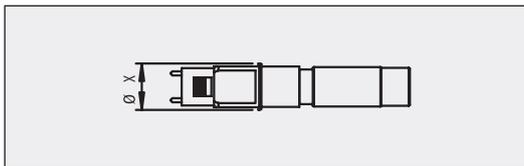
A Max	B Nom	C Nom	D1 Min	D2 Min	ØE Max	Thread F Tri-start (inches)	G Max	H Max	ØJ Max	K Max	L Max
26.40	20.62	18.26	4.84	3.16	17.10	0.7500"	23.20	46.50	24.95	46.00	47.50

M A/F	N Max	P Max	R Max	ØS Min	ØT Max	U Max	ØV Max	ØW Min	ØX Max	Y Max	Z Max	AA Max	AB Max
27	32.00	22.30	2.96	19.55	23.46	16.16	22.96	22.86	8.01	2.76	23.76	7.80	4.81

Ordering Information

<p>Series:</p> <p>Style: 00 = Bulkhead receptacles 06 = Plug 07 = Jam nut</p> <p>Shell finish: N = Nickel plated C = Cadmium plated</p>	<p>MC6 **E -* -F** * * -11-**</p>	<p>Shell size 11- no. of channels: 02 to 72</p> <p>Insert type: P</p> <p>Shell orientation: N,A,B,C</p> <p>Modification code: See above</p>
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Optical Termini



MC6 MT contact

Accessories/Essential Tooling Information

MC6 Fibre Optic Module for DMC-M Connectors

The Deutsch MC6 DMC-M high performance fibre optic modules are manufactured from a high performance material for corrosion resistance and features a rugged construction. The common MC6 optical contact is rigid or sprung loaded and common to both plug and receptacle to maintain physical contact even under severe shock or vibration.

Deutsch Quality Approvals

- Civil Aviation Authority A8-1
- BS EN ISO 9001
- Military Spec Approvals 38999
- BS9000 and CECC
- Underwriters Laboratories
- BS EN ISO 9001:2000 (BSI)
- BS/EN 9100:2003 (BSI)
- AS9100 Rev B (BSI)
- AS9120:2002 (BSI)
- EASA Part 21 Subpart G (CAA)
- BS9000 (BSI)
- Underwriters Laboratories (UL)
- Military Spec Approvals 38999 (DSCC)

For more information, technical assistance or custom solutions email fibre@deutsch.net

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