

MC6 - Fiber Optic Ribbon Cable Connector

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Product Facts

- Insert-to-insert keying assists precision alignment
- Individually rear insertable/ removable optical contacts enable easy assembly
- Backshells and adaptors available for most single and multifiber cable types

Fiber 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

Alianment Pin:

Seals – Fluorosilicone

Plating – Nickel

The MC6 high density, fiber 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 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

- · Color 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



MC6 - Fiber Optic Ribbon Cable Connector (Continued)

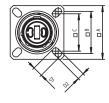
Optical Performance

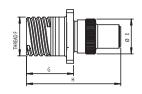
For more information contact technical sales on +44 (0) 1424 858358 or fiber@deutsch.net

Dimensional Information

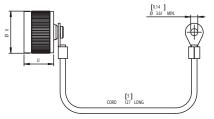
All dimensions in millimeters unless otherwise stated. To complete part number for ordering see Ordering Information.

MC6 Receptacle



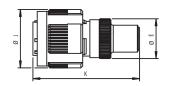


Protective Cap Receptacle MC640E-N-11

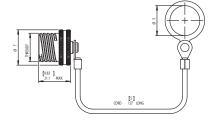


MC6 Plug



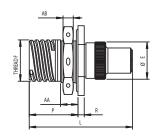


Procap Plug MC620E-N-11

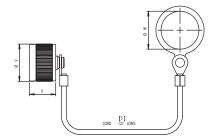


Jam Nut

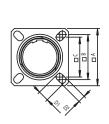


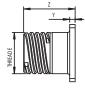


Protective Cap Receptacle



Dummy Receptacle MC630E-N-11





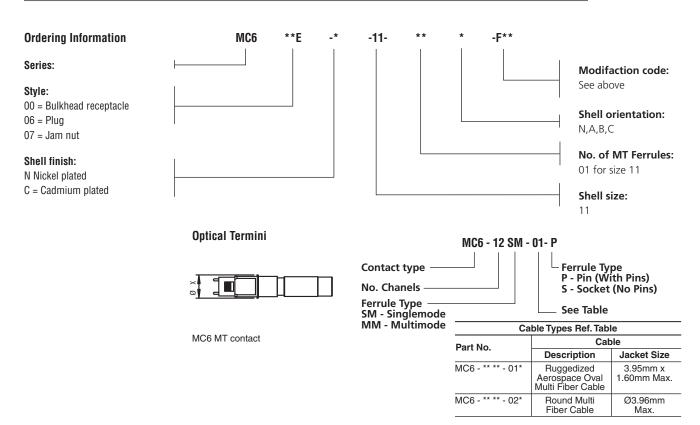
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MC6 - Fiber Optic Ribbon Cable Connector (Continued)

Contact and Tooling Information

A Max	B Nom	C Nom	D1 Min	D2 Min	ØE Max		Thread F start (inches	s)	G Max	H Max	ØJ Max	K Max	L Max
26.40	20.62	18.26	4.84	3.16	17.10		0.7500"	2	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



Accessories / Essential Tooling Information

MC6 Fiber Optic Module for DMC-M Connectors

The MC6 DMC-M high performance fiber 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.

Quality Approvals

- Civil Aviation Authority A8-1
- BS EN ISO 9001
- Military Spec Approvals 38999
- BS9000 and CECC
- Underwriters Laboratories
- BS EN IS09001:2000 (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).