MC6 - Fiber Optic Ribbon Cable Connector

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
- Alignment 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
- 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
- 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

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
Ruggedized Fiber Optic Connectors

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

For additional support numbers please visit www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: +1 800 522 6732
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

Dimensions are in millimeters unless otherwise specified.

Catalog 1308940
Revised 9-14
www.te.com
Ruggedized Fiber Optic Connectors

MC6 - Fiber Optic Ribbon Cable Connector

Contact and Tooling Information

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<th>A Max</th>
<th>B Nom</th>
<th>C Nom</th>
<th>D1 Min</th>
<th>D2 Min</th>
<th>ØE Max</th>
<th>Thread F</th>
<th>G Max</th>
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<th>ØJ Max</th>
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Ordering Information

Series:
MC6

Style:
00 = Bulkhead receptacle
06 = Plug
07 = Jam nut

Shell finish:
N = Nickel plated
C = Cadmium plated

Modification code:
See above

Shell orientation:
N, A, B, C

No. of MT Ferrules:
01 for size 11

Shell size:
11

Optical Termini

MC6 MT contact

Cable Types Ref. Table

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Cable</th>
<th>Description</th>
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<td>Ruggedized Aerospace Oval Multi Fiber Cable</td>
<td>3.95mm x 1.60mm Max.</td>
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<tr>
<td>MC6 - ** - 02*</td>
<td>Round Multi Fiber Cable</td>
<td>Ø3.96mm Max.</td>
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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 ISO9001:2000 (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).