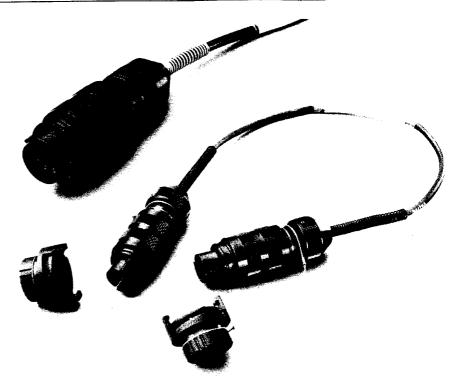
ITT Cannon's FOMC Series Fiber Optic connectors are designed to meet the needs of military and commercial customers who require a rugged environmental multifiber field connector. The FOMC combines features which provide the user with a connector that will withstand rough handling and weather extremes with features of elastomeric cable and interface sealing, scoop proof interface to prevent optical contact damage, removable front insert for easy optical contact cleaning, anodized shell finish, and a tough, strong dust cap with attaching stainless steel strap.

Hermaphroditic design means plugs will mate with an identical plug as well as receptacles. The removable insert assures correct mating and alignment. In the FOMC, ruggedness is combined with good optical performance, rapid coupling and attractive pricing. Another plus feature for ITT Cannon's FOMC design is the fiber flexure chamber which prevents tensile loads from being applied to the terminated fiber. The chamber provides space for surplus fiber in a service loop of sufficient length to permit one retermination of one or more fibers in the plug and cable receptacle without reterminating the strength member at the same time. This versatility is an ITT Cannon exclusive.

The FOMC 2, 4, and 8 channel connectors are available as a cable plug, and several receptacle shell configurations. The 8 channel can also be used with less contacts i.e. 6, 4, or 2 channels. Sealing plugs are supplied with the 8 channel connector when using less than the full complement of contacts. This catalog provides complete ordering information on available shell types, contact layouts, fiber and cable dimensional and mechanical parameters



State-of-the-art ceramic alignment tips on the contact provide maximum coupling performance — less than 1.0 dB average coupling loss.

Standard Data

Materials
Aluminum Alloy
Aluminum Alley
Thermoplastic
Elastomer
Elastomer
Elastomer
Thermoplastic
Steel wire with black chrome finish
Thermoplastic
Thermoplastic
Elastomer
Laser with clear chromate over exposed base metal

Fungus inert per requirement 4 of MIL-STD-454 Fluid resistant (elasto meric materials) per

MIL-H-5606-Hydraulic fluid, petroleum base MIL-L-7808-Lubricating oil, synthetic base MIL-G-3056-Gasoline

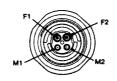
MIL-A-8243-Ethelyne glycol

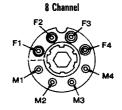
Contact Arrangements

Face View of Insert









How to Order

SERIES

Fiber Optic Multi Channel

SHELL STYLE

- 2 Square Flange Receptacle (2/4) channel only)
- 6 Cable Plug
- 7 Jam Nut Receptacle

SHELL SIZE (Channels)

(Maximum number of contact positions)

2

4 8

DUST CAP

- W Connector supplied with dust cap
- X Without dust cap

CABLE TYPE

- 1 Pigtail buffered fiber (receptacle only)
- 2 Multi fiber strengthened cable
- 3 Single fiber strengthened cables (8 channel only)

FOMC SERIES -SHELL STYLE -SHELL SIZE DUST CAP CABLE TYPE -CABLE SIZE (O.D.) -POLARIZATION POSITION -

CABLE SIZE (O.D.)

MODIFICATION CODES

- A $.190 \pm .015$ (4.83 $\pm .38$) D $.236 \pm .019$ (6.0 $\pm .5$)
- $F .276 \pm .015 (7.0 \pm .4)$
- $G .374 \pm .015 (9.50 \pm .38)*$
- $H = .500 \pm .015 (12.70 \pm .38)*$
- P Pigtail buffered fiber
- *NOTE: Cable sizes G and H are for 8 channel FOMC Connector

POLARIZATION

- (8 channel plug only. Omit for 2/4 channel)
- 0 Not polarized
- 1 thru 6 key position

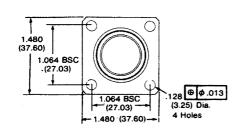
MODIFICATION CODES

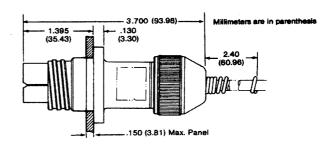
Consult factory

2 and 4 Channel

Square Flange Receptacle

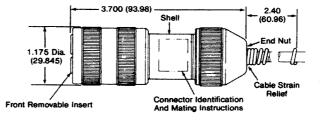
FOMC 2



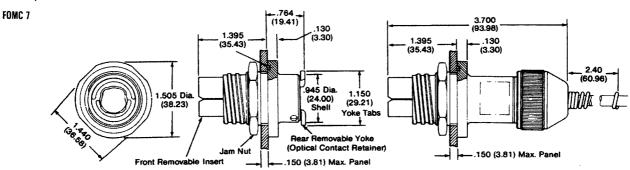


FOMC 6



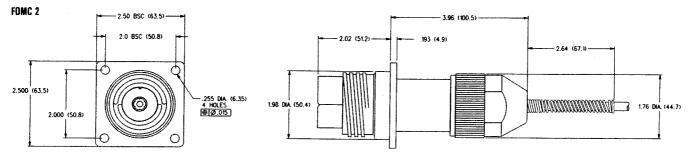


Jam Nut Receptacle



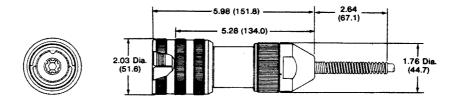
8 Channel

Square Flange Receptacle



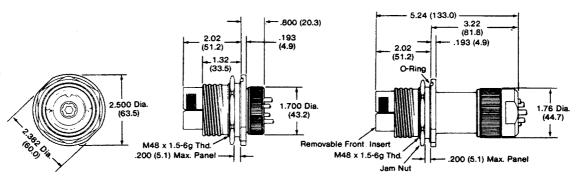
Plug

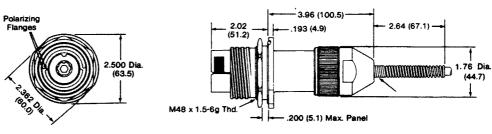
FOMC 6



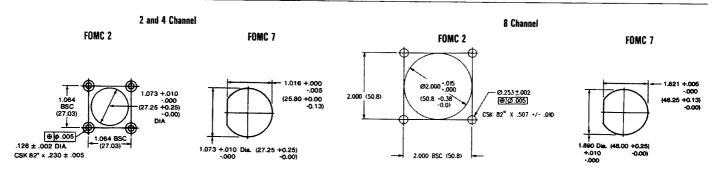
Jam Nut Receptacle

FOMC 7





Recommended Panel Cutouts



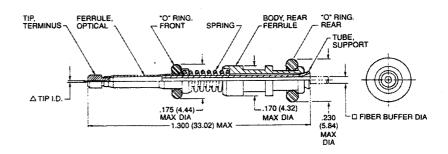
ITTCannon

Dimensions are shown in inches (millimeters).

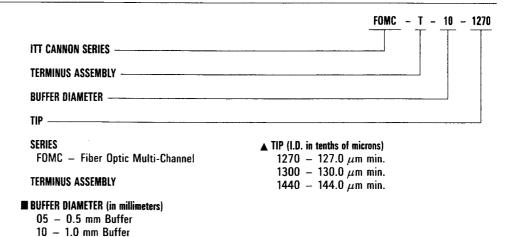
Dimensions subject to change.

Contact Assembly

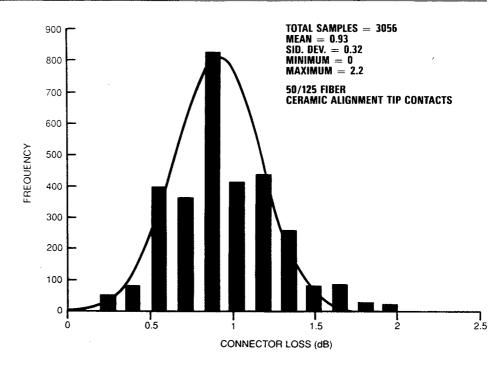




How to Order - Contacts



Coupling Performance



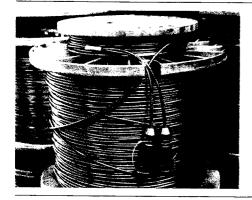
ITTCannon

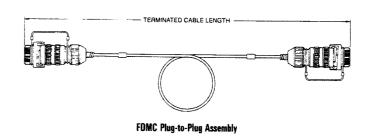
11 - 1.1 mm Buffer

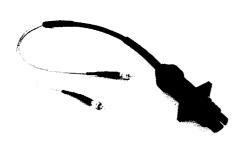
ITT Cannon is a major supplier of fiber optic cable assemblies for multi channel tactical ground based and avionics applications. Experience includes de-

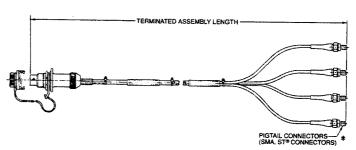
livery of more than 20,000 custom fiber optic links over the past twelve years. Cable assemblies are built to specific design requirements and are 100% optically tested.

FOMC





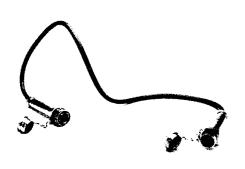


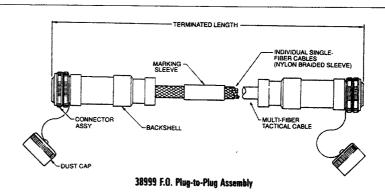


FOMC Receptacle/Pigtail Assembly

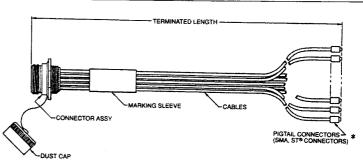
*ST is a trademark of AT&T

FOHC









38999 F.O. Receptacle/Pigtail Assembly

*ST is a trademark of AT&T

LTT Cannon