

ITAC MIL-PRF-83526 (Compliant Fiber Optic Connector System)

Consult Factory for C.O.T.S/MIL Spec Product Availability and Qualification Status

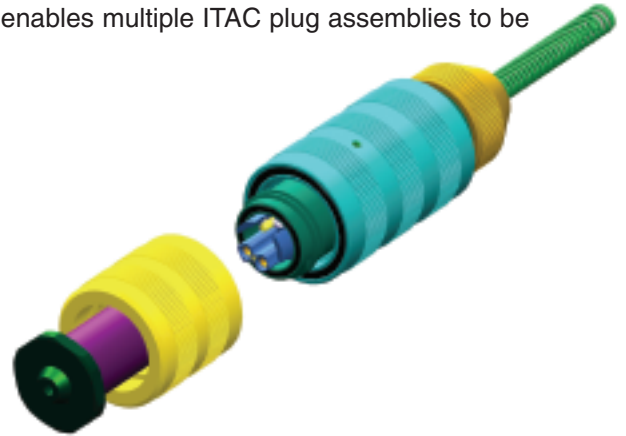
The next generation connector system for military tactical deployments.

MIL-PRF-83526 Compliant Fiber Optic Connector System

ITAC, ITT's Ground Tactical connector system was designed primarily for harsh environmental conditions and utilizes industry standard physical contact ceramic ferrule and keyed termini. Although designed for minimal maintenance in the field, the removable end insert, with four separate keying options, allows direct access to the alignment sleeves and termini for easy cleaning and inspection. Hermaphroditic design enables multiple ITAC plug assemblies to be daisy-chained together.

Product Features

- Conforms to MIL-PRF-83526/16 and /17 Specifications
- Hermaphroditic Connection System
- Genderless Termini
- Hermaphroditic Plug & Jam-Nut Receptacle Configurations
- High Density Arrangements
- Operating Temperature Range: -65C to +160C.
- Environmental Sealing Terminus
- 2.5 mm Diameter Ceramic Ferrule



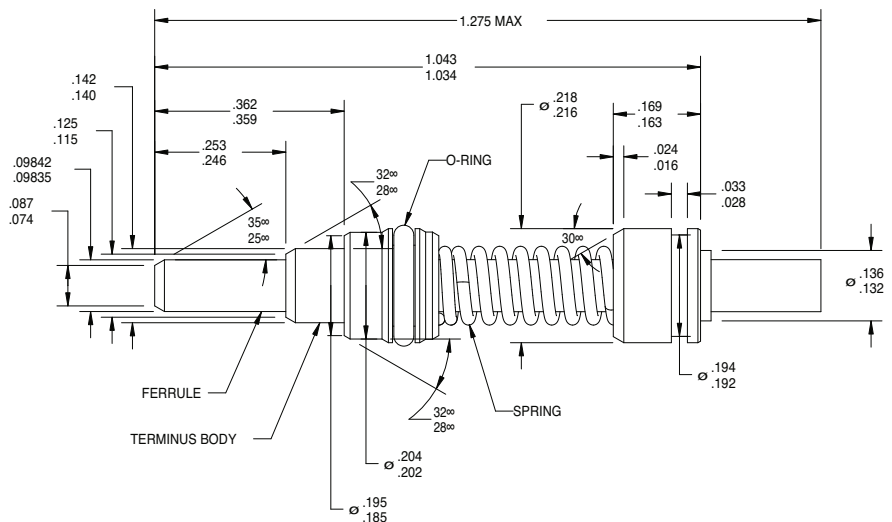
	Multimode	Singlemode
Ferrule (O.D.)	2.5 mm	2.5 mm
Fiber Type	62.5/125	SMF 28
Insertion Loss (dB typ.)	0.40	0.60
Maximum Loss (dB max.)	0.75	1.00
Return Loss (dB typ.)	25	55
Return Loss (dB min.)	20	50
Channel Servicing	Single	
Channel Repair	Single	
Cyclic Durability	500	

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ITAC 4 Channel Fiber Optic Connector System

Genderless Terminus design with Low Loss Optical Performance.



Contact Part Numbers

M29504/16

Genderless Terminus

for use with M83526 /16 /17 Connectors

Fiber Size	Ferrule I.D.	Dash Number
Singlemode 9/125	125 +1/-0	- 1250
Singlemode 9/125	125.5 +1/-0	- 1255
Singlemode 9/125	126 +1/-0	- 126S
Multimode 50/125, 62.5/125	126 +1/-0	- 126M
Multimode 50/125, 62.5/125	127 +1/-0	- 1270
Multimode 100/140	142 +1/-0	- 1420

Descriptive Part Number

ITAC / T - 1250 - M001

ITT Series

Terminus Assy

Ferrule I.D. Dash Number

Modification Code

Modification Code

Consult Factory for Modification Codes
(Omit for none)

- Crimp Sleeve may be ordered separately. Part Number 252-1318-000

PRODUCT NOTES

1. Packaging: Packaging identification includes manufacturer's name and part number

2. Material / Finish:

Terminus assembly:

Ferrule: Zirconia Ceramic / N.A.

Body: Stainless steel / Passivate

Sleeve: Stainless steel / Passivate

Crimp Sleeve: Brass Alloy/N.A

Seal: Fluorosilicone

Spring: High Tensile Stainless Steel/Passivate

3. Tooling:

Insertion / Removal tool: 274-0059-000

4. Instructions: Consult factory for contact termination instructions and tooling.

5. Connector: Genderless Terminus used in with M83526 /16 /17 Plug and Receptacle configurations. See Page 61 for connector options.



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ITAC 4 Channel Fiber Optic Connector System

Hermaphroditic design allows plugs to mate with an identical plug as well as receptacle.

ITT Series

ITAC - ITT Ground Tactical Connector Series

Connector Type

- 16 - Hermaphroditic Plug Connector
- 17 - Jam Nut Mount Receptacle Connector

Dust Cap

- W - Connector Supplied with Dust Cap
- X - Without Dust Cap

Cable O.D. Inches (mm)

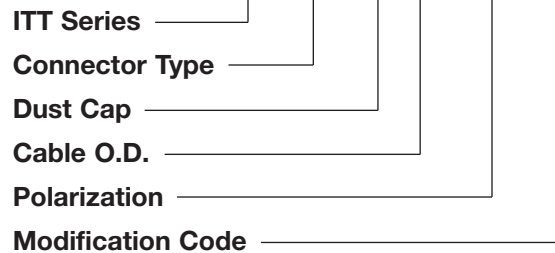
- 01 - .190 - .239 (4.83 - 6.07)
- 02 - .240 - .279 (6.10 - 7.09)
- 03 - .280 - .315 (7.11 - 8.00)
- 04 - .316 - .346 (8.03 - 8.79)
- 05 - .347 - .379 (8.81 - 9.63)
- 06 - .380 - .423 (9.64 - 10.74)
- 07 - .424 - .465 (10.77 - 11.81)

Polarization

- 0 - Universal
- 1 - Key Configuration 1
- 2 - Key Configuration 2
- 3 - Key Configuration 3

Descriptive Part Number

ITAC 16 / W 01 - 4 M001



Modification Code

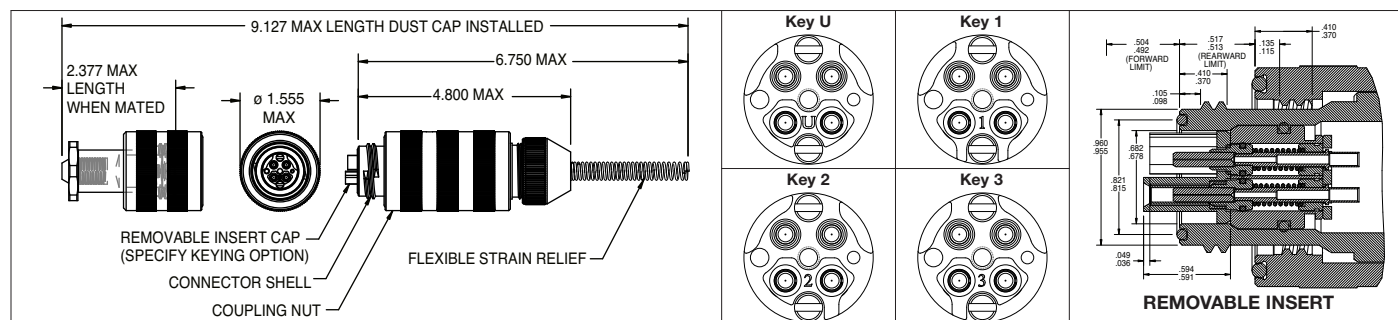
Consult Factory for Modification Codes
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ITAC 4 Channel Fiber Optic Connector System

ITT is a major supplier of fiber optic cable assemblies for multi channel tactical ground based and avionics applications



M83526/16 Hermaphroditic Plug Connector – PRODUCT NOTES

1. Material / Finish:

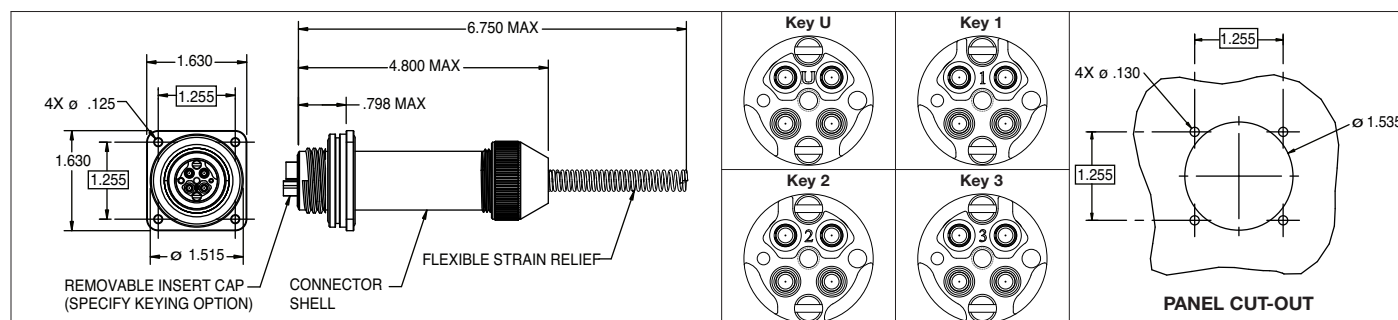
Insert: Aluminum Alloy / Olive Drab Cadmium over
Electroless Nickel
Hardware Stainless Steel / Passivated
Internal Alignment Sleeves: Ceramic
Shell / Shell Hardware: Aluminum Alloy / Olive Drab
Cadmium over Electroless Nickel
Screws, Washers, Alignment pins: Stainless Steel/NA

2. Tooling:

Insertion / Removal tool: 274-0059-000

3. Instructions: Consult factory for assembly, installation and maintenance instructions.

4. Termini: Genderless design allows termini to be used in Plug and Receptacle configurations.
See Page 61 for Product Details.



M83526/17 Jam Nut Mount Receptacle Connector – PRODUCT NOTES

1. Material / Finish:

Insert: Aluminum Alloy / Olive Drab Cadmium over
Electroless Nickel
Hardware Stainless Steel / Passivated
Internal Alignment Sleeves: Ceramic
Shell / Shell Hardware: Aluminum Alloy / Olive Drab
Cadmium over Electroless Nickel
Screws, Washers, Alignment pins: Stainless Steel/NA

2. Tooling:

Insertion / Removal tool: 274-0059-000

3. Instructions: Consult factory for assembly, installation and maintenance instructions.

4. Termini: Genderless design allows termini to be used in Plug and Receptacle configurations.
See Page 61 for Product Details.