

Plastic Optical Fiber Termini / Cable Assemblies

Fiber Optical Contacts for #16 MIL-DTL-38999 Connectors



Plastic Optical Fiber Termini / Cable Assemblies



- EMI security
- No crosstalk
- Low weight
- Robust pin and socket design

Smiths Interconnect offers Polymer Optic Fiber (POF) size 16 contacts for MIL-DTL-38999 connector shells. POF contacts, where both the fiber core and the cladding are made of polymer, have been on the market for many years. Key advantages of polymer optical fibers include high flexibility and more economical connecting and transmission technology than in the case of glass. This type of fiber has all the major benefits of a glass fiber optic cable connection but at a reduced cost.

POF assemblies possess special characteristics that make this product an ideal solution for applications which traditional glass fiber products are not well suited. For applications requiring a very tight bend radius, POF products can generally bend to 25mm with no excessive attenuation.

Current Termini Configuration

- Optical termini for use with 1 mm Plastic Optical Fiber (POF) in circular shells according to MIL-DTL-38999.
- Rear-release type, intermateable with contacts according to MIL-T-29504/4 and 5.
- Contact assembly is achieved by crimping and cleaving or polishing.

Features

- Easy termination process – field replaceable
- Fewer parts than standard, glass fiber termini
- Typical dB loss per mated pair: 1 dB
- Lower cost than typical glass fiber assemblies

Materials

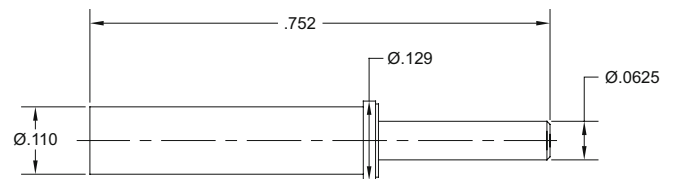
Ferrules	Ø1.59mm, Metal
Alignment Sleeve	Metal
Connector Body	ARCAP
Mating Cycles	500
Fiber Guiding Bore	Ø1060 µm
Operating Temperatures	-65° to 150C°, depending on cable material
Insertion Loss	1.0 dB
Cable Diameter	Ø2.2mm

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Plastic Optical Fiber Pin Contacts

Part Number

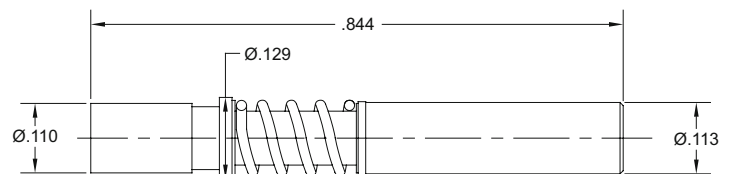
238500-8017



Plastic Optical Fiber Socket Contact

Part Number

238400-8011



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