



Series 80 Mighty Mouse Size #16 Fiber Optic Termini General Information

INACTIVE FOR NEW DESIGN FIBER DESIGN APPLICATIONS. SEE SERIES 806 FIBER OPTIC CONNECTORS



Series 801 Plug with
181-057 pin terminus



Series 801 receptacle with
181-075 socket terminus

- **Single Mode and Multi Mode**
- **Snap-in, Rear Release**
- **Precision Ceramic Ferrules**
- **0.5 dB Typical Attenuation**
- **1 to 22 Channels**

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Reduce size and weight with Series 80 Mighty Mouse fiber optic connectors

New size 16 fiber optic termini can be used in any standard Mighty Mouse connector but perform best in our Series 801, 804 and 805 systems. Available for single mode or multi mode fiber, these termini have low insertion loss and are intended for high-reliability aerospace applications. Series 80 connectors offer substantial reductions in size and weight compared to our D38999 type fiber optic connectors. Complete how to order instructions are included on the following pages. When ordering termini (sold separately), please refer to the insert arrangement tables for count and size.

Series 80 Insert Arrangements for use with #16 Fiber Optic termini

Series 801	6-1	8-2	9-4	10-5	12-7
Series 802	6-1	8-2	9-4	10-5	13-7
Series 805	8-1	10-2	11-4	12-5	15-7

Series 801	16-12	17-14	19-19	21-22
Series 802	14-12	15-14	19-19	21-22
Series 805	18-12	19-14	21-13	23-22

Order connectors less contacts and order fiber optic termini separately. Cavity numbers are mating face view of pin connectors.

Dimensions in Inches (millimeters) are subject to change without notice.

Series 80 Mighty Mouse
Size #16 Fiber Optic Termini
181-057 and 181-075



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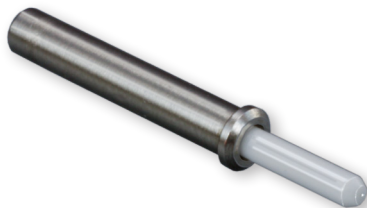


Size 16 fiber optic termini

Size 16 fiber optic termini are compatible with all Series 80 Mighty Mouse threaded coupling connectors with size 16 cavities. These snap-in, rear-release termini feature precision ceramic ferrules and sleeves for accurate fiber alignment. Typical insertion loss 0.5 dB. Fits 50/125 and 62.5/125 multi mode and 9/125 single mode fiber.

Termini Type	Optical Fiber Type	Part Number	A Ferrule I.D.
Pin	Single Mode	181-057-125	125.5 microns
	Multi Mode	181-057-126	126.0 microns
Socket	Single Mode	181-075-125	125.5 microns
	Multi Mode	181-075-126	126.0 microns

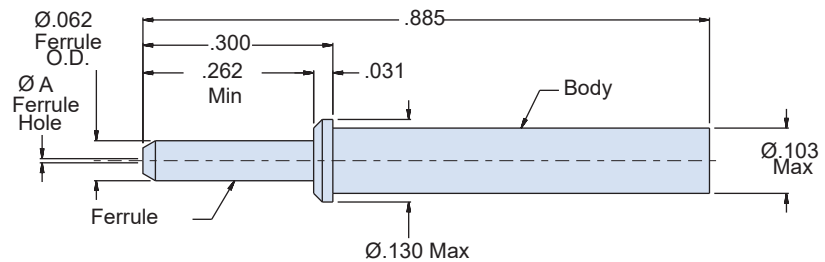
*Consult factory for additional sizes



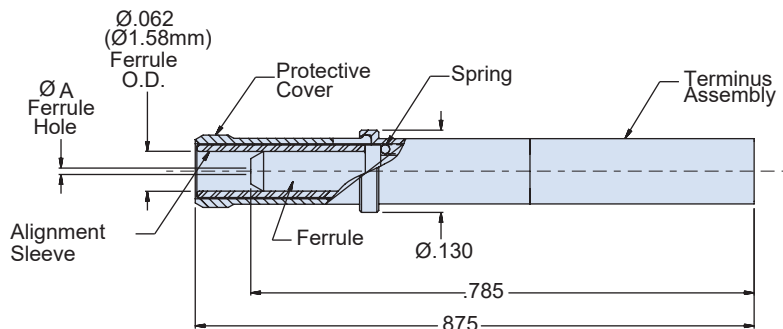
181-057 Pin Terminus



181-075 Socket Terminus



181-057 Pin Terminus



181-075 Socket Terminus

MATERIALS AND FINISHES

181-057 :

- Ferrule: zirconia ceramic
- Body: stainless steel, passivated

181-075:

- Ferrule, alignment sleeve: zirconia ceramic
- Terminus assembly: stainless steel/passivate
- Spring: stainless steel/passivate
- Protective cover: spring alloy/nickel
- Insertion/extraction Tool
- Standard size 16 plastic tool
- Glenair Part Number [809-131](#)
- Military Part Number M81969/14-03
- Consult factory for termination and assembly procedures/tools.

Table II: Accessories

181-001-S	Ceramic Alignment Sleeve
181-075-C	Protective Cover

Table I: Performance Specifications

Optical Insertion Loss	0.5 dB typical
Operating Temperature	-65°C to +150°C/Connector -65°C to +200°C/Termini*
Mating Durability	TIA/EIA-455-21, 500 cycles (Per MIL-PRF-29504B)

*Depending on cable and epoxy used.

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