



Series 80 Mighty Mouse Size #20HD Fiber Optic Termini General Information

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



Series 801 Receptacle
with 181-084 pin termini



Series 801 Plug
with 181-085 socket termini

- Single Mode and Multi Mode
- Snap-in, Rear Release
- Precision Ceramic Ferrules
- 0.5 dB Typical Attenuation
- 3 to 69 Channels

W

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

New size 20HD 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 #20HD Fiber Optic termini

Series 801	6-23	7-25	8-28	9-210	13-220
Series 802	6-23	7-25	8-28	9-210	12-220
Series 805	8-23	9-25	10-28	11-210	15-220

Series 801	16-235	17-241	19-255	21-269
Series 802	14-235	15-241	19-255	21-269
Series 805	18-235	19-241	21-255	23-269

See Series 80 Mighty Mouse catalog for connector ordering information. 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 #20HD Fiber Optic Termini 181-084 and 181-085



Fiber Optic
Mighty Mouse

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Mighty Mouse

Size 20HD fiber optic termini

Size 20HD fiber optic termini are compatible with all Series 80 Mighty Mouse threaded coupling connectors with size 20HD 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.



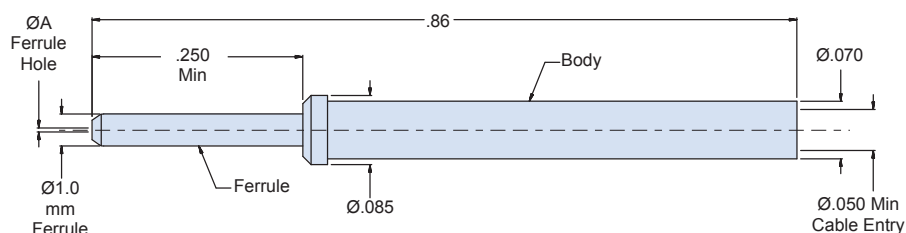
181-084 Pin Terminus



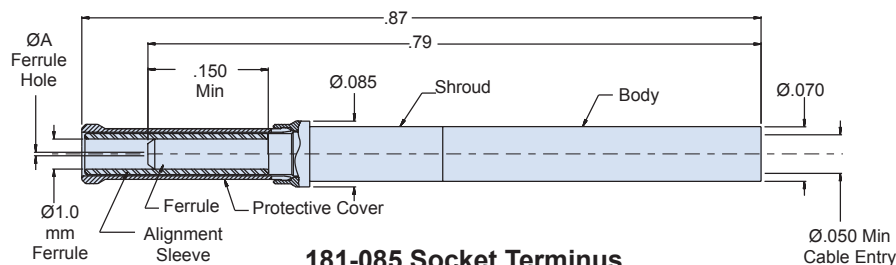
181-085 Socket Terminus

Termini Type	Optical Fiber Type	Part Number	ØA Ferrule Hole*	Fiber Size Core/Cladding
Pin	Single Mode	181-084-1255	125.5 microns	9/125
	Multi Mode	181-084-126	126.0 microns	50/125, 62.5/125
Socket	Single Mode	181-085-1255	125.5 microns	9/125
	Multi Mode	181-085-126	126.0 microns	50/125, 62.5/125

*Consult factory for additional sizes



181-084 Pin Terminus



181-085 Socket Terminus

NOTES

Materials and Finishes

181-084 :

- Ferrule: zirconia ceramic
- Body: copper-nickel-zinc alloy

181-085:

- Ferrule, alignment sleeve: zirconia ceramic
- Body, shroud: copper-nickel-zinc alloy
- Spring (not shown): stainless steel/passivate
- Protective cover: spring alloy/nickel

Application Notes

- Alignment sleeve and protective cover are supplied with socket terminus assembly, and may be ordered separately (see accessories table).
- For grommet sealing plug, see Glenair part number 859-012
- Consult factory for termination and assembly procedures/tools
- Insertion/Extraction Tool Glenair Part Number [809-203D](#)

Table II: Accessories

181-085-S	Ceramic Alignment Sleeve
181-085-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*
Temperature (Thermal) Shock	-55°C to +85°C, 10 cycles, per TIA/EIA-455-71, Test Schedule C. 0.5 dB max IL before test. 0.5 dB max CIT during and after test.
Temperature Cycling	-55°C to +85°C, 5 cycles, per TIA/EIA-455-3, Test Condition A. 0.5 dB max IL before test. 0.5 dB max CIT during and after test.
Mating Durability	500 cycles, per TIA/EIA-455-21. 0.5 dB max IL before test. 0.5 dB max CIT during and after test.
Vibration - Random	49.5 G RMS, 24-2000 Hz, 8 hours per Axis (longitudinal and perpendicular) at Ambient Temperature, per EIA-364-28, Test Condition V. 0.5 dB max IL before test. 0.5 dB max CIT after test. Discontinuity of 0.5 dB max for 50 microseconds.
Mechanical Shock (Half-sine Pulse)	300 G Peak, 6 Shocks per Axis, per TIA-455-14, Test Condition D. 0.5 dB max IL before test. 0.5 dB max CIT after test. Discontinuity of 0.5 dB max for 50 microseconds.

*Depending on cable and epoxy used.

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