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Mighty Mouse

Size 20HD fiber optic termini



181-084 Pin Terminus

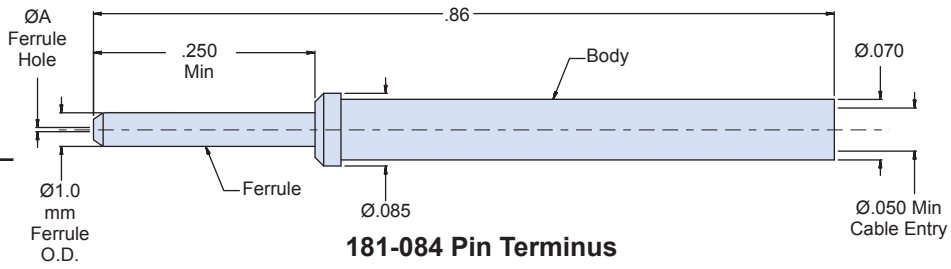


181-085 Socket Terminus

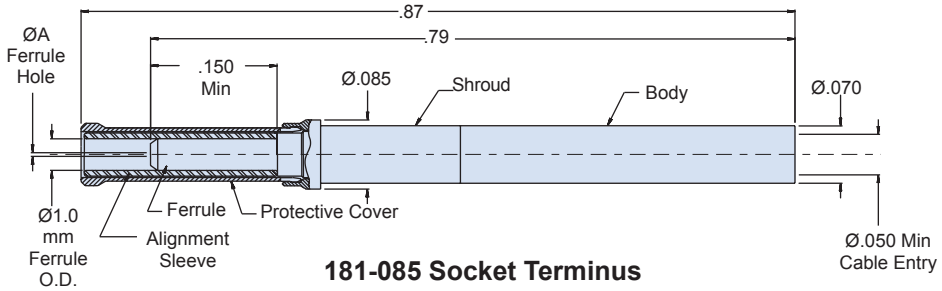
Size 20HD fiber optic termini are compatible with all Series 80 Mighty Mouse threaded coupling connectors with size 20HD cavities. These snap-in, rear-release termini feature precision ceramic ferrules and sleeves for accurate fiber alignment. Typical insertion loss 0.5 dB. Fits 50/125 and 62.5/125 multi mode and 9/125 single mode fiber.

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.	

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

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