

PLASTIC OPTICAL FIBER | UNIBODY CONSTRUCTION

Large-core POF termination for standard harsh-environment interfaces

Pin and socket configurations for D38999 Series I, III and IV and ARINC 600 / ARINC 404 connector systems.



500-1100 μm

Available fiber-bore range

Up to 1.1 mm coated core
Up to 0.09 in jacket diameter

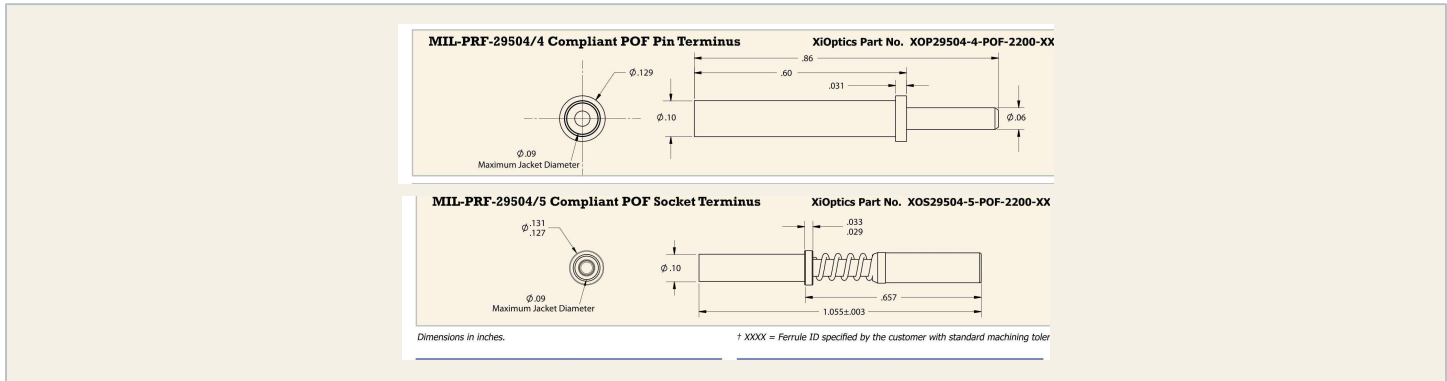
DESIGN CHARACTERISTICS

- Type 2 bonding cup captures the optical media, strength member, and protective jacket.
- All-stainless-steel Unibody construction removes plated-body flaking as a contamination source.
- Tapered entrance and exit geometry supports adhesive application and fiber insertion.
- Extended bonding cup engages the connector rear seal independently of the POF jacket.

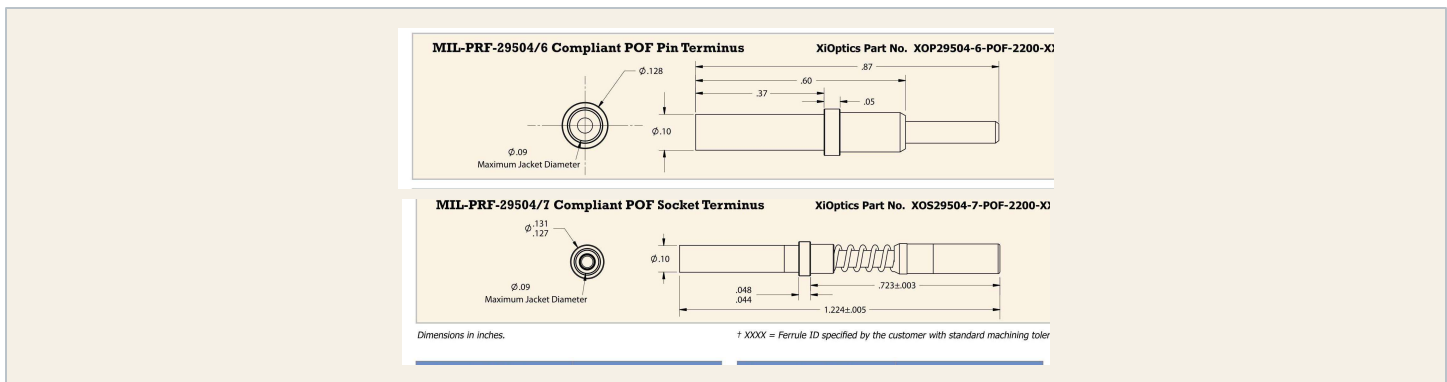
Configuration, availability, and qualification status are confirmed against current controlled records at quotation.

One construction, two connector-system families

D38999 SERIES I, III AND IV | /4 PIN AND /5 SOCKET



ARINC 600 / ARINC 404 | /6 PIN AND /7 SOCKET



D38999 PIN / SOCKET

XOP | XOS29504-[4 | 5]-POF-2200-XXXX-C

ARINC 600/404 PIN / SOCKET

XOP | XOS29504-[6 | 7]-POF-2200-XXXX-C

XXXX identifies the customer-specified ferrule ID within standard machining tolerances.

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Performance depends on the complete process

POF insertion loss varies with fiber preparation, wavelength, end-face processing, and the optical media. The legacy datasheet reports typical measurements below 0.5 dB at 650 nm.

< 0.5 dB

Legacy typical measurement at 650 nm

MATERIALS AND FINISHES

Component	Material / finish
Alignment sleeve	Zirconia ceramic
Compression spring	Passivated stainless steel
Metal components	Passivated stainless steel

ACCESSORIES AND TOOLS

Description	Part number
Ceramic alignment sleeve	XOSS0002
Alignment sleeve hood	XOHB0002
Insertion / removal tool	M81969/14-03
Metal insertion tool	M81969/8-07
Metal removal tool	M81969/8-08

Evaluate the complete application

Share fiber manufacturer/type, coated core, jacket diameter, operating wavelength, interface, quantity, and need date.

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