

ARINC 600 / ARINC 404 (MIL-C-81659) | GLASS OPTICAL FIBER

Style 2 pin and socket termini for ARINC 600 and ARINC 404

Precision optical termini for rectangular connector systems that combine electrical, RF, power, and optical positions.



/6 PIN /7 SOCKET

Single-mode and multi-mode configurations for ARINC 600 and ARINC 404 connector applications.

DESIGN CHARACTERISTICS

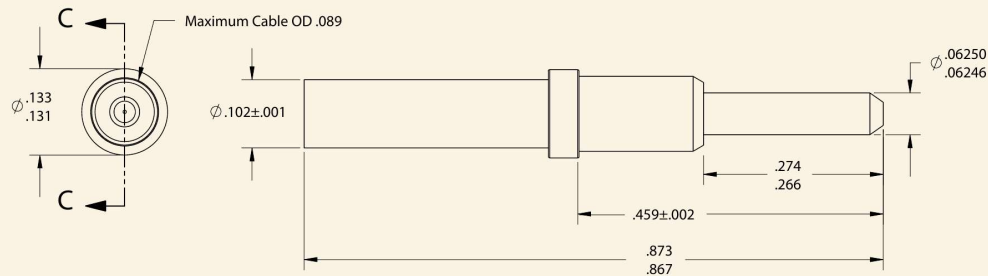
- Type 2 bonding cup supports direct retention of cable, strength member, and fiber.
- Extended rear body interfaces with the connector lip seal on a smooth cylindrical surface.
- Precision zirconia ceramic ferrule and passivated stainless-steel components.
- Fixed guide pins are recommended in the legacy source when exceptionally low insertion loss is required.

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

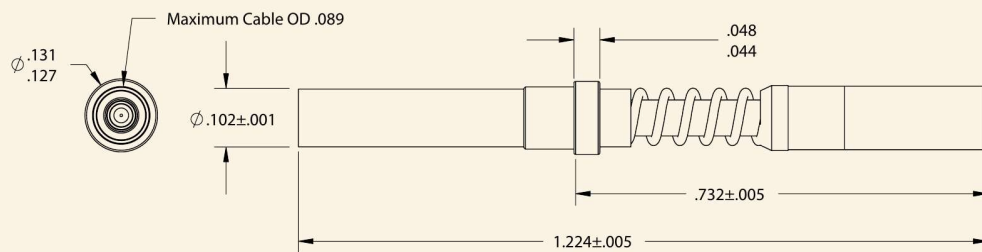
Reference geometry and configuration

Public reference dimensions are reproduced from the legacy XiOptics technical source. Dimensions are in inches.

MIL-PRF-29504/6 Style Pin Terminus XiOptics Part No. XOP29504-6-XX



MIL-PRF-29504/7 Style Socket Terminus XiOptics Part No. XOS29504-7-XX



Dimensions in inches

/6 PIN

XOP29504-6-[SM | MM]-2200-[BORE]-C2

/7 SOCKET

XOS29504-7-[SM | MM]-2200-[BORE]-C2

SM or MM identifies optical-fiber type; BORE identifies ferrule diameter in microns; C2 identifies the Style 2 COTS configuration.

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

Selection data and integration support

FERRULE OPTIONS

Fiber / bore option	Ferrule diameter (μm)
Single-mode	125 / 125.5 / 126
Multi-mode	126 / 127 / 142
Multi-mode	156 / 157 / 173 / 236

TYPICAL OPTICAL PERFORMANCE

Measure	Single-mode	Multi-mode
Insertion loss	≤ 0.5 dB	≤ 0.3 dB
Ferrule tolerance	< 0.5 μm	< 0.5 μm

Typical values from the legacy XiOptics datasheet; application conditions and current controlled limits must be confirmed.

MATERIALS AND FINISHES

Component	Material / finish
Ferrule	Zirconia ceramic
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

Discuss the application with a specialist

Share the connector interface, fiber type, cable outside diameter, quantity, and required date. XiOptics can confirm the current configuration, supporting documents, and quotation path.

SALES

sales@xioptics.com

TECHNICAL SUPPORT

techsupport@xioptics.com

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