

ARINC 801 | NXTCore™ OPTICAL TERMINI

ARINC 801 termini for optical connector systems

Discrete fiber optic termini for tight and loose jacketed cable, with precision ceramic ferrules and integrated cable retention.



900 Micron, Non-Pull Proof and Pull Proof Variant

Single-mode, multi-mode and Plastic Optical Fiber configurations for ARINC 801 interfaces. Specialty fiber sizes and configurations available.

DESIGN CHARACTERISTICS

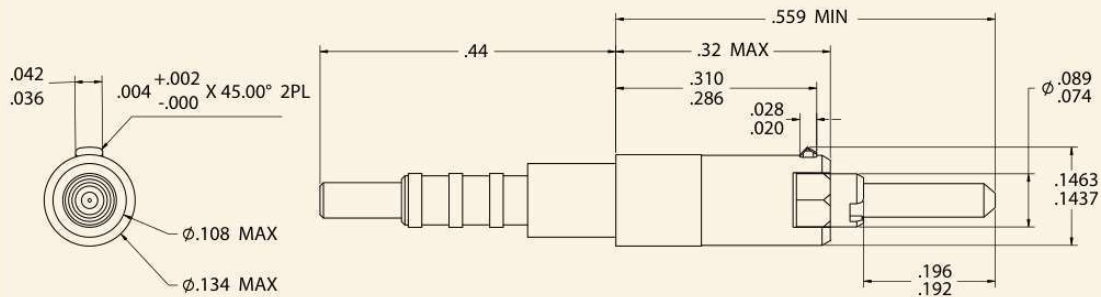
- Integrated fiber/cable crimp keeps cable loads off sensitive optical components.
- Industry standard retention supports rear insertion and release.
- Hex register tuning supports stable, low insertion loss performance.
- 1.25 mm zirconia ferrules support PC, UPC and APC end-face geometry.

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

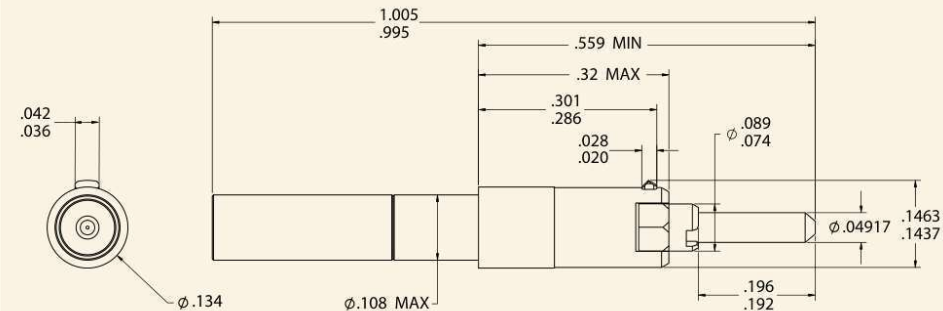
Reference geometry and configuration

Dimensions are in inches.

ARINC 801 Pull Proof Optical Terminus



ARINC 801 Non-Pull Proof Optical Terminus



PULL PROOF / LOOSE CABLE

TA-[BORE]-[S|M]-P

NON-PULL PROOF / TIGHT CABLE

TA-[BORE]-[S|M]-N

Example: TA-1255-S-N. S = single-mode, M = multi-mode. The numeric field identifies ferrule hole diameter. N900 is a special 900 μ m configuration. Confirm available bore sizes at quotation.

Configuration, availability, and pricing are confirmed at quotation.

Selection data and integration support

OPTICAL PERFORMANCE

Parameter (dB)	SM UPC	SM tuned UPC	APC SM	MM
Insertion loss, typical	0.15	0.10	0.20	0.15
Insertion loss, maximum	0.75	0.20	0.40	0.30
Return loss, typical	55	56	65	42
Return loss, minimum	50	50	60	40

Values from testing in environments at independent laboratory.

MATERIALS AND FINISHES

Component	Material / finish
Ferrule	Zirconia ceramic
Body	Copper alloy and CRES
Plating / finish	Nickel / passivated
Spring	Stainless steel

CONFIGURATION AND INTEGRATION

Ferrule hole sizes: 80–330 μm .
 External fiber jackets: 900 μm –2.2 mm.
 POF variant: 1mm POF Media, 1 dB maximum loss.
 Connector formats include LC simplex/duplex, D38999, D-Sub and rectangular ARINC products.
 Termination references include Telcordia GR-326 and ARINC documents.

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

specialist@xioptics.com

Configuration, availability, and pricing are confirmed at quotation.