

# Corning Gilbert Trunk & Distribution Connectors

## GRS 3-Piece Connector Series Product Information

Broadband  
Products

### GRS Connector Specifications

Designed to meet SCTE interface specifications

Bandwidth: 5 MHz to 1 GHz

Operating Range: -40°F to +140°F

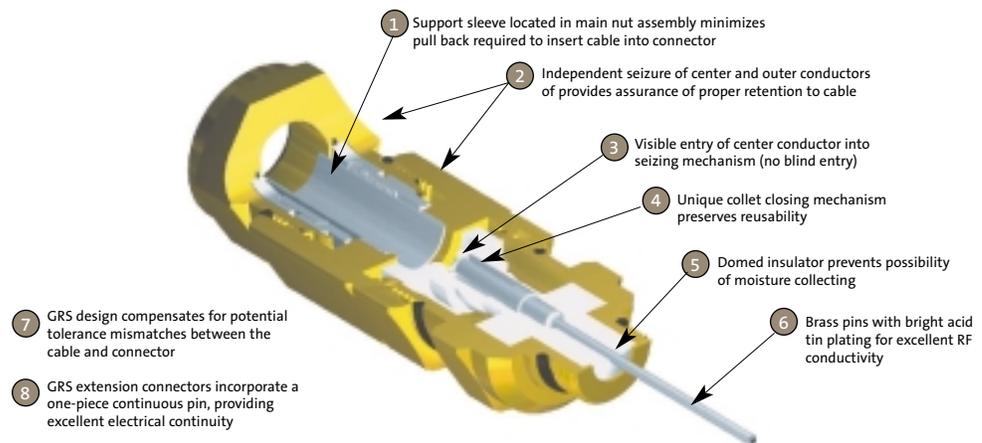
Nominal Impedance: 75 ohms

Shielding Effectiveness: > 130 dB

Return Loss: 30 dB minimum

Insertion Loss: < 0.15 dB (pin types)

Cable Retention: Exceeds cable manufacturers' maximum pulling tension specifications



The industry leading GRS 3-piece trunk & distribution connector series are designed for optimal performance in high bandwidth, two-way and digital communication systems.

The GRS Series provides independent seizing of the cable's center and outer conductors during the installation process, guaranteeing proper cable retention. Uniquely, the GRS design compensates for potential tolerance mismatches between the cable and connector.

The connector configuration allows a full view of the center conductor entering the center conductor seizing mechanism, eliminating the "blind entry" associated with 2 piece connector installation.

Cable "pullback" is minimized, preventing cable deformation. GRS extension connectors, used extensively in system upgrades, incorporate a one-piece continuous pin, providing excellent long-term performance.

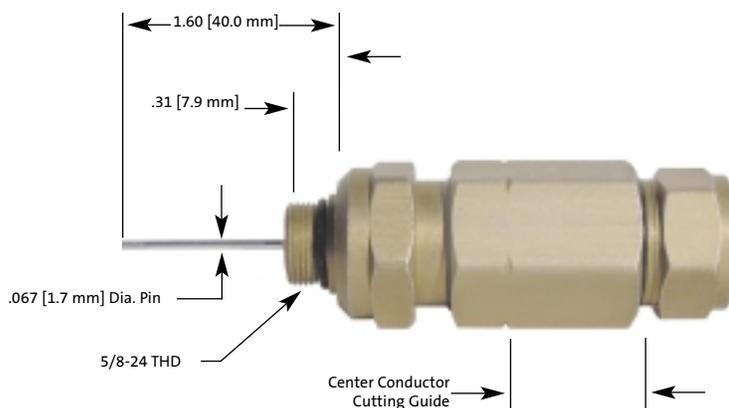
**Materials and Construction of Connector Components:**

ASTM 6262 aluminum alloy with gold chromate conversion coating for excellent corrosion resistance and a dry film lubricant to prevent thread galling.

Contact pins and support sleeves are brass with bright acid tin plating providing excellent RF conductivity.

O-rings are ultraviolet and ozone resistant EPDM for maximum durability.

**Ordering Information<sup>1</sup>**



**Type<sup>1</sup>**

- CH** Pin Connector (1.6" or 2.31" pins)
- SP** Splice Connector
- EXT** 3" Extension Connector (2.31" pin only)
- EXT-6** 6" Extension Connector (2.31" pin only)
- BAFF** "F" Female Connector
- AFM** "F" Male Connector
- TR** Cable Terminator

Long Pins:  
Add letter "T" to pin connector part number for long pin version 2.31" in lieu of standard 1.6" length.

Example:  
GRS-500-CH-DU-03 is a "Pin Connector" with a 1.6" pin for .500 P3/T10 cable

GRS-500-CH-DU-03-T is a "Pin Connector" with a 2.31" pin for .500 P3/T10 cable

Part Number	Commscope P3 Times Fiber T-10
GRS-412-TYPE-DU-01	.412
GRS-500-TYPE-DU-03	.500
GRS-625-TYPE-DU-02	.625
GRS-750-TYPE-DU-01	.750
GRS-875-TYPE-DU-02	.875
GRS-1000-TYPE-DU-01	1.000

Part Number	Commscope QR
GRS-320-TYPE-QR	.320 (7C)
GRS-540-TYPE-QRP-T	.540
GRS-715-TYPE-QRP-T	.715
GRS-860-TYPE-QRP-T	.860
GRS-1125-TYPE-QR	1.125

Part Number	Times Fiber TX
GRS-480-TYPE-TX	.480
GRS-565-TYPE-TX	.565
GRS-700-TYPE-TX	.700
GRS-840-TYPE-TX	.840
GRS-1160-TYPE-TX	1.160

Part Number	Trilogy MC <sup>2</sup>
GRS-440-TYPE-MC2	.400
GRS-500-TYPE-MC2	.500
GRS-650-TYPE-MC2	.650
GRS-750-TYPE-MC2	.750
GRS-1000-TYPE-MC2	1.000

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