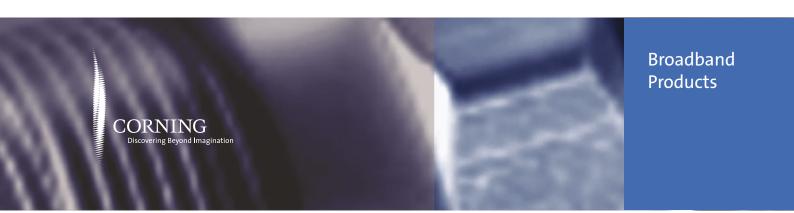
# **GRS Series**

3-Piece Trunk and Distribution Connectors Product Information



**Connector 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 @ 1 Ghz

Insertion Loss: < 0.15 dB (pin types)

Cable Retention: Exceeds cable manufacturers' maximum pulling tension specifications The industry leading GRS 3-piece trunk and distribution connector series is 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 traditional 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.

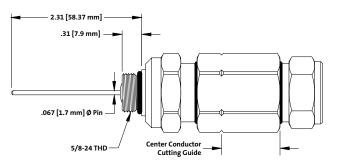
O-rings are ultraviolet and ozone resistant EPDM for maximum durability.

# **Product Features**

- Support sleeve located in main nut assembly minimizes pull back required to insert cable into connector
- Independent seizure of center and outer conductors of provides assurance of proper retention to cable
- Visible entry of center conductor into seizing mechanism (no blind entry)
- Unique collet closing mechanism preserves reusability

# **Ordering Information**

- Domed insulator prevents possibility of moisture collecting
- Brass pins with bright acid tin • plating for excellent RF conductivity
- GRS design compensates for potential tolerance mismatches between the cable and connector
- **GRS** extension connectors incorporate a one-piece continuous pin, providing excellent electrical continuity



СН Pin Connector SP Splice Connector 3" Extension Connector EXT EXT-6 6" Extension Connector "F" Female Connector BAFF "F" Male Connector AFM **Cable Terminator** TR

**Connector Types** 

Pin length is standard 2.31" **Example Part Number** GRS-500-CH-DU-03-T Pin Connector with a 2.31" pin for .500 P3/T10 cable

CommScope P-3 **Times Fiber T-10** Part Number .412 GRS-412-TYPE<sup>2</sup>-DU-01-T .500 GRS-500-TYPE<sup>2</sup>-DU-03-T .625 GRS-625-TYPE<sup>2</sup>-DU-02-T .750 GRS-750-TYPE<sup>2</sup>-DU-01-T .875 GRS-875-TYPE<sup>2</sup>-DU-02-T 1.000 GRS-1000-TYPE2-DU-01-T

## CommScope QR

.320 (7C)	GRS-500-TYPE <sup>2</sup> -DU-03-T
.540	GRS-540-TYPE <sup>2</sup> -DU-03-T
.715	GRS-715-TYPE <sup>2</sup> -DU-03-T
.860	GRS-860-TYPE <sup>2</sup> -DU-03-T
1.125	GRS-1125-TYPE <sup>2</sup> -DU-01-T

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### .84

**Times Fiber TX** 

.480

.565

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.700	GRS-700-TYPE <sup>2</sup> -TX-T
.840	GRS-840-TYPE <sup>2</sup> -TX-T
1.160	GRS-1160-TYPE <sup>2</sup> -TX-T

GRS- 480-TYPE<sup>2</sup>-TX-T

GRS-565-TYPE<sup>2</sup>-TX-T

Irilogy MC <sup>2</sup>	
.440	GRS-440-TYPE <sup>2</sup> -MC <sup>2</sup> -T
.500	GRS-500-TYPE <sup>2</sup> -MC <sup>2</sup> -T
.650	GRS-650-TYPE <sup>2</sup> -MC <sup>2</sup> -T
.750	GRS-750-TYPE <sup>2</sup> -MC <sup>2</sup> -T
1.000	GRS-1000-TYPE <sup>2</sup> -MC <sup>2</sup> -T