



TFC Coaxial Connector Information Sheet

Type: QC II– Series 59 Universal, Ni

F-Type Compression Connector

Series 59: Universal Design
Nickel (Ni) Plating

Part Numbers:
TFC-QC2-59U-3
(Standard & TriShield, &QuadShield)



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Features

- Standard 0.300" – 0.250" Cable Preparation using
- Industry Standard Preparation Tools

Connector Characteristics – TFC QC II Compression F-Type

Electrical		Specifications	Limits	Results
	Return Loss	ANSI/SCTE 123 2006 Telcordia™ GR-1503 3.5.4	> 30 dB (5-1000 MHz)	Meets or Exceeds
	Insertion Loss	Telcordia™ GR-1503 3.5.3	< 0.1 dB (to 350 MHz)	Meets or Exceeds
			< 0.2 dB (to 700 MHz)	Meets or Exceeds
			< 0.3 dB (to 1 GHz)	Meets or Exceeds

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Revision: 5.27.2014

Page: 1 of 2

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Type: QC II– Series 59 Universal, Ni

Connector Characteristics – TFC QC II Compression F-Type

Electrical	Specifications	Limits	Results
Shielding Effectiveness	Telcordia™ GR-1503 3.5.5	> 95 dB (to 300 MHz) > 70 dB (to 1 GHz)	Meets or Exceeds Meets or Exceeds
Screening Attenuation	EN 50289-1-6 / IEC 62153-4-7	> 80 dB (5 MHz - 3.0 GHz)	Reference Information
Dielectric Strength	Telcordia™ GR-1503 3.5.2	> 1.0 kVAC for 1 minute	Meets or Exceeds
Insulation Resistance	Telcordia™ GR-1503 3.5.1	> 5000 Meg-Ω@ 100 VDC	Meets or Exceeds

Mechanical Specifications	Specifications	Limits	Results
Corrosion Resistant	ANSI/SCTE 123 2006	1000 hours	Meets or Exceeds
Cable Application	Telcordia™ GR-1503 3.2.2	< 20 lbf Insertion Force	Meets or Exceeds
Cable Interface	Telcordia™ GR-1503 3.2.3	> 40 lbf Pull Force	Meets or Exceeds
Equipment Interface	Telcordia™ GR-1503 3.2.4	> 10 Matings w/o Damage > 60 in•lbs w/o Damage	Meets or Exceeds Meets or Exceeds
Temperature Cycling with Humidity	Telcordia™ GR-1503 4.1	70°F to 140°F to -40°F Must pass 3.2.3 spec after 7 days	Meets or Exceeds
Loosening Torque	Telcordia™ GR-1503 4.2	> 30 in•lbs after 3 days of 4.1	Meets or Exceeds
Moisture Migration	ANSI/SCTE 64 2004	No Dye Penetration	Meets or Exceeds
Salt Fog	Telcordia™ GR-1503 4.4, 1000 hrs	Return Loss > 30 dB @ 1 GHz	Meets or Exceeds
Environmental Pollutants	Telcordia™ GR-1503 4.5	Return Loss > 30 dB @ 1 GHz	Meets or Exceeds
Vibration	Telcordia™ GR-1503 4.6	Loosening Torque > 32 in•lbs	Meets or Exceeds
Chemical Resistance Outdoor	Telcordia™ GR-1503 4.7	7 Days Exposure	Meets or Exceeds
UV Degradation	Telcordia™ GR-1503 4.8	7 Days Exposure	Meets or Exceeds
Ozone Degradation	Telcordia™ GR-1503 4.10	70 Hour Exposure	Meets or Exceeds

Note 1: Connectors will not exhibit cracking, swelling, or brittleness.

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Page: 2 of 2

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