

# LOCKING CONNECTOR With Continuous Ground & Enhanced Shielding

PCT-TRSXL-6LMG

21 mm stroke length



Innovation for the Last Mile™



## CONNECTOR CONVERGENCE™

Uniquely PCT!

**Torque Retention + Continuous Grounding + Enhanced Shielding**

The innovative merging of three distinct PCT connector technologies into one connector creating the most reliable connector on the market today.

## ANOTHER INNOVATIVE SOLUTION

PCT is widely known for its patented compression connector technology, but is always looking for new ways to improve the quality of the drop. That attentiveness brings another breakthrough feature to our compression connector, the PCT-TRSXL-6LMG, making it even better than ever!

One of the most common mistakes made by self-installers, and even by many trained technicians, during an installation is improper connector tightening. This oversight leads to interruptions and degraded performance in both video and data services resulting in countless truck rolls.

PCT's continuous ground feature - standard on our PCT-TRSXL-6LMG torque retaining connector - maintains greater immunity to ingress and egress due to loose connections, both inside and outside of the home. Laboratory testing has proven that, even in a loosened state, the PCT-TRSXL-6LMG's unique features keep the connection tight while providing continuous grounding and enhanced shielding.

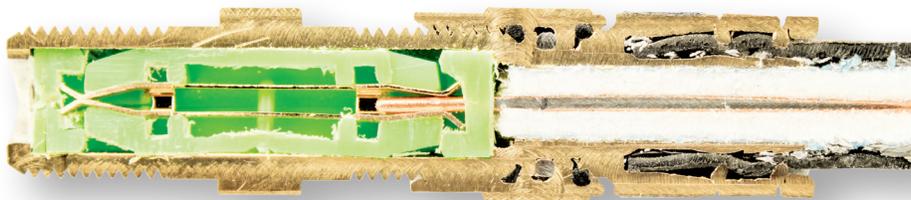
PCT-TRSXL-6LMG connector is designed with a 21 mm stroke length to be compatible with the most commonly used compression tools, including horseshoe designs.

PCT stands behind the philosophy that a tight connection is always the best connection but understands that an installation completed by a customer or installer may run the chance of being less than perfect. That's why PCT develops products that help avoid service related issues, increase customer satisfaction and lower operational expenses for operators.

## Insure your installations today!

Built with the highest standards and performance on the market, PCT-TRSXL-6LMG connector features include:

- ✓ **Continuous Ground** - Improved ground contact both when tight and loose
- ✓ **Enhanced Shielding** - Improved shielding effectiveness when loose
- ✓ **Torque Retaining** - Built in lock washer keeps the connection tight
- ✓ **Tested to ANSI/SCTE, ASTM and Telcordia (formerly Bellcore) Standards** - The only coaxial connector that meets Telcordia's loosening torque specification
- ✓ **21 mm Stroke Length** - Compatible with most commonly used compression tools (see Tooling on next page)
- ✓ **All Metal Design** - 100% brass construction
- ✓ **Dual O-Ring Design** - Delivers a superior barrier against moisture intrusion
- ✓ **Metal Compression Rings** - Stay compressed and won't break down over time



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## Specifications

### PCT-TRSXL-6LMG

Parameters	Details
<b>General</b>	
Bandwidth	5 MHz to 3 GHz
Impedance	75 Ohms (Nominal)
Return Loss	> -30 dB to 1 GHz
Shielding Effectiveness	> -100 dB from 5 to 1002 MHz
Insertion Loss	≤ 0.2dB @ 3 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Loosened Condition	Continuous ground feature maintains the ground path even in a loosened state
Operating Temperature	-40 to +140 °F (-40 to +60 °C)
Cable Range	RG6 cable single tape and braid through quad-shield
Acceptable Maximum Core Diameter (Dielectric + Tape)	0.193 in (4.90 mm)
Acceptable Minimum Jacket Diameter	0.265 in (6.73 mm)
Acceptable Maximum Jacket Diameter	0.305 in (7.75 mm)
Cable Retention	> 60 lbs (27.21 kg), ambient temperature
Cable Insertion	< 20 lbs maximum insertion force, ambient temperature
<b>Physical Characteristics</b>	
Length Before Compression	1.23 in (31.37 mm)
Mating Mechanism	7/16 Hex 3/8-32 UNEF threading
Construction Material	Nickel plated brass
<b>Tooling</b>	
Compression Tools <sup>1</sup>	PCT-RHXL-CT-AS, PCT-CT-RH, Ripley CT2-AS, as well as many other manufacturers' standard 21 mm compression stroke length tools
<b>Part Number</b>	
PCT-TRSXL-6LMG	Compression Connector, Torque Retaining, Series 6 Cable Single Tape and Braid Through Quad-Shield with Enhanced Shielding and Grounding



Parameters	Specifications	Requirements	Results
<b>Testing</b>			
Cable Retention	ANSI/SCTE 99 2009	> 40 lbs pull force	PASS
Chemical Resistance	Telcordia GR-1503-CORE 4.7 & 4.8	No cracking, swelling or brittleness	PASS
DC Contact Resistance Outer Conductor	ANSI/SCTE 103 2004	< 10 milliohms	PASS
Insertion Loss	ANSI/SCTE 144 2012	< 0.05 dB to 350 MHz; < 0.1 dB to 700 MHz; < 0.2 dB to 1 GHz	PASS
Installation Force	- -	< 20 lbs maximum insertion	PASS
Loosening Torque	Telcordia GR-1503-CORE 4.2	≥ 30 in / lbs after temperature cycling	PASS
Moisture Migration	ANSI/SCTE 60 2010	No dye penetration after 5 days of temperature cycling	PASS
Ozone Degradation	Telcordia GR-1503-CORE 4.10	70 hours exposure	PASS
Return Loss	ANSI/SCTE 05 2008	> -30 dB to 1 GHz	PASS
Salt Fog	ANSI/SCTE 143 2007	1,000 hours salt spray; > -30 dB return loss to 1 GHz	PASS
Corrosion Resistance	Telcordia GR 1503-CORE 3.2.1	Shall be resistant to corrosion	PASS
Shielding Effectiveness	ANSI/SCTE 48-2 2008	> -100 dB to 300 MHz; > -90 dB to 1 GHz	PASS
Tightening Torque <sup>2</sup>	ANSI/SCTE 98 2009	Tightened to 60 in / lbs without damage	PASS
UV Degradation	Telcordia GR-1503-CORE 4.9	1,000 hours, no cracking, swelling or brittleness	PASS
Vibration	Telcordia GR-1503-CORE 4.6	> 80% of the tightening torque	PASS

<sup>1</sup> This list is not all inclusive and only reflects the tooling options available by PCT International.

<sup>2</sup> TRS/TRSXL 6L/6LMG: TRS 59L; and DRS 11L.



US Patent Nos. 6042422, 6712631.

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