

LOCKING CONNECTOR

With Continuous Ground & Enhanced Shielding

PCTTRS6LC

18 mm stroke length



Innovation for the Last Mile®



Connector Convergence™

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

Uniquely PCT!

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 yet another breakthrough feature to our compression connector, the PCTTRS6LC, making it even better than ever!

PCT's innovative use of the split wave lock washer provides a solution tailor-made for the F-connector continuous conductivity "wish list." The split wave lock washer is not new. However, PCT's application and use in an F-connector is distinctly original and it offers numerous technology improvements including a 100% increase in surface area contact in a loosened state.

- Two (2) contact points per surface, four (4) total
- 100% increase in surface area contact
- Increased contact pressure for more deflection
- Better thread starting characteristics
- Torque retention

PCT's continuous ground feature - standard on our PCTTRS6LC 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, PCTTRS6LC's unique features provide continuous grounding and enhanced shielding.

PCTTRS6LC connector is designed with a 18 mm stroke length to be compatible with the most commonly used compression tools designed for 18 mm stroke length connectors.

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!

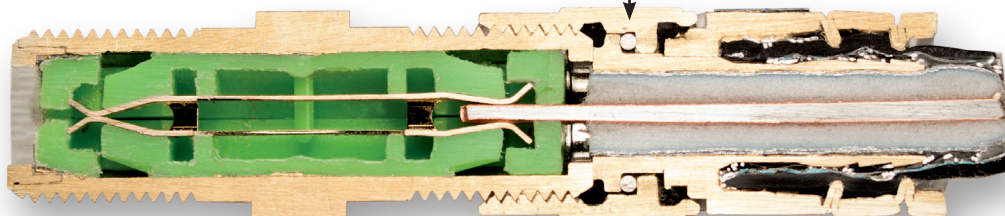
Built with the highest standards and performance on the market, PCTTRS6LC connector features include:

- ✓ **Continuous Ground** - Improved ground contact both when tight and loose
- ✓ **Enhanced Shielding** - Improved shielding effectiveness when loose
- ✓ **Torque Retaining** - Built in split ring wave lock washer keeps the connection tight
- ✓ **18 mm Stroke Length** - Compatible with most commonly used compression tools designed for 18 mm stroke length connectors (see Tooling on next page)
- ✓ **All Metal Design** - 100% brass construction
- ✓ **Dual O-Ring Design** - Delivers a superior barrier against moisture intrusion
- ✓ **Dual Metal Compression Rings** - Stay compressed and won't break down over time

PCT's specialized use of the split ring wave lock washer provides best in class surface area contact in a loosened state.



Split Ring Wave Lock Washer



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Specifications

PCTTRS6LC

Parameters	Details
General	
Bandwidth	5 to 1200 MHz
Impedance	75 Ohms (Nominal)
Return Loss (min)	
5 to 1000 MHz	-30 dB
1000 to 1200 MHz	-26 dB
Dynamic Resistance	< 10 milliohms
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	Series 6 cable single tape and braid through quad-shield
Acceptable Maximum Core Diameter (Dielectric + Tape)	0.193 in (4.90 mm)
Acceptable Minimum Jacket Diameter	0.273 in ± 0.008 in (6.93 mm ± 0.20 mm)
Acceptable Maximum Jacket Diameter	0.297 in ± 0.008 in (7.54 mm ± 0.20 mm)
Cable Retention	> 60 lbs (27.21 kg), ambient temperature
Cable Insertion	< 20 lbs (9.07 kg), ambient temperature
Physical Characteristics	
Length Before Compression	1.09 in (27.84 mm)
Mating Mechanism	7/16 Hex 3/8-32 UNEF threading
Construction Material	Nickel plated brass
Tooling	
Compression Tools ¹	PCT-AIO-CT and PCT-RH-CT-AS, as well as many other manufacturers' standard 18 mm compression stroke length tools
Part Number	
PCTTRS6LC	Compression Connector, Torque Retaining, Series 6 Cable Single Tape and Braid Through Quad-Shield with Enhanced Shielding and Grounding

Notes: ¹ This list is not all inclusive and only reflects the tooling options available by PCT International.



Test Results

Parameters	Specifications	Requirements	Results
Testing			
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 2012	< 10 milliohms	PASS
Installation Force	- -	< 20 lbs maximum insertion	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 2014	> -30 dB to 1 GHz	PASS
Salt Fog	ANSI/SCTE 143 2013	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 2011	> -100 dB to 300 MHz; > -90 dB to 1 GHz	PASS
Tightening Torque	ANSI/SCTE 98 2014	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



US Patent Nos. 6042422, 6712631.

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PCT.DS.CONNL.PCTTRS6lc.20141117
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