

UNIVERSAL LOCKING COMPRESSION CONNECTOR

Torque Retention

PCT-FRS-59L

21 mm stroke length



Innovation for the Last Mile®



TORQUE RETENTION

PCT's distinctive connector technologies
protect against
loose connector installations

ANOTHER INNOVATIVE SOLUTION

PCT is widely known for its patented compression connector technology and is always researching new options to assist our customers with improving the quality of the drop, while controlling costs and keeping step with industry advancements. That attentiveness is apparent in our newest compression connector, the PCT-FRS-59L, providing the cost efficient, ultimate performance connector.

Metal Compression Ring Technology

One of the primary problems with most compression connector designs is that the compression technique used is dependent on plastic sliding under metal or metal sliding over plastic when compressed. The two pieces then simply snap together, easily failing over time and resulting in the connector sliding off of the cable.

The PCT-FRS connector family uses PCT's patented and field proven, metal compression ring technology made famous in our DRS and TRS connector families. The unique metal compression ring ensures that the polymer sleeve remains locked in place after compression while remaining compressed over time and eliminating failure concerns.

Torque Retention Feature

Improper connector tightening during an installation is one of the most common mistakes made by self-installers, and even by many trained technicians. This oversight leads to interruptions and degraded performance in both video and data services resulting in countless truck rolls. Laboratory testing has proven that the PCT-FRS-59L's unique features keep the connection tight even after vibration and temperature cycling while providing enhanced shielding if left in a loosened state.

Delivering High Quality Experience

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!

With the PCT-FRS-59L connector, you receive all of these features without any additional premium!

- ✓ **Torque Retaining** - Built in lock washer keeps the connection tight
- ✓ **Tested to Applicable ANSI/SCTE, ASTM and Telcordia (formerly Bellcore) Standards** - Utilizes PCT's patented coaxial connector technology meeting Telcordia's loosening torque specifications
- ✓ **Conforms to ANSI/SCTE 123 2011**
- ✓ **Metal Design** - Compression body, post and nut are 100% brass construction
- ✓ **UV Stabilized Polymer Sleeve** - Provides environmental protection to the cable / connector interface
- ✓ **Dual O-Ring Design** - Delivers a superior barrier against moisture intrusion
- ✓ **Metal Compression Ring** - Ensures the UV stabilized polymer sleeve is locked in place after compression, stays compressed and won't break down over time



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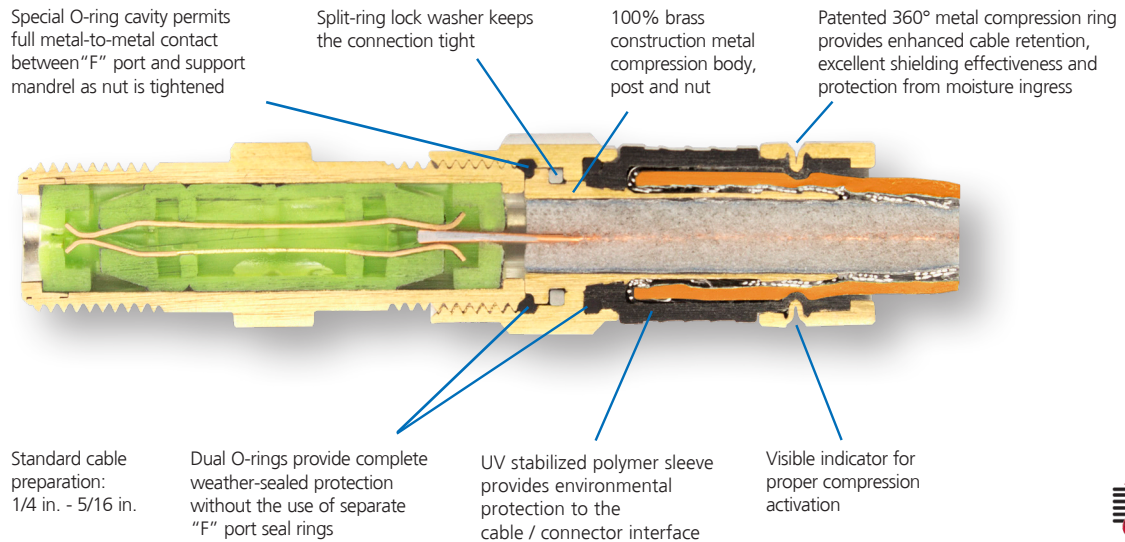
Specifications

PCT-FRS-59L

Parameters	Details
General	
Bandwidth	5 to 3000 MHz
Impedance	75 Ohms (Nominal)
Return Loss	
5 to 1002 MHz	-30 dB
1002 to 2150 MHz	-25 dB
2150 to 3000 MHz	-18 dB
Shielding Effectiveness	
5 to 3000 MHz	> -100 dB
Insertion Loss	≤ 0.2 dB @ 3000 MHz
Operating Temperature	-40 to +140 °F (-40 to +60 °C)
Cable Range	Series 59 cable standard through quad-shield
Withstand Tightening Torque	60 in lbs
Cable Retention	40 lbs min
Cable Insertion	< 20 lbs (9.07 kg) maximum insertion force, ambient temperature
Physical Characteristics	
Compression tool stroke length	21 mm
Mating Mechanism	7/16 Hex 3/8-32 UNEF-2B threading
Construction Material	
Nut and Rear Compression Body	Sulfamate nickel plated brass
Post	Bright acid tin plated brass
Body Insert Sleeve	UV stabilized polymer
Tooling	
Compression Tools	PCT-AIO-CT and PCT-RHXL-CT-AS, as well as many other manufacturers' 360° standard 21 mm compression stroke length tools. To view our Tool Compatibility Table, please visit pctintl.com/PCTtools .
Part Number	
PCT-FRS-59L	Compression Connector, Torque Retaining, Series 59, Standard through Quad-Shield



PCT-FRS-59L Cutaway



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