

# UNIVERSAL COMPRESSION CONNECTORS

PCT-FRS-6 and PCT-FRS-59  
21 mm stroke length



Innovation for the Last Mile®



## 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 PCT-FRS compression connector family providing a cost efficient, corrosion resistant and long-life connection.

### 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.

### 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.

## Install PCT-FRS Series for long-life connections today!

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

- ✓ **Tested to Applicable ANSI/SCTE and ASTM Standards** - Utilizes PCT's patented coaxial connector technology.
- ✓ **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

Parameters	PCT-FRS-6 Details	PCT-FRS-59 Details
<b>General</b>		
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 6 cable standard through quad-shield	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	
<b>Physical Characteristics</b>		
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	
<b>Tooling</b>		
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 <a href="http://pctintl.com/PCTtools">pctintl.com/PCTtools</a> .	
<b>Part Number</b>		
PCT-FRS-6	Compression Connector, Series 6, Standard through Quad-Shield	
PCT-FRS-59	Compression Connector, Series 59, Standard through Quad-Shield	

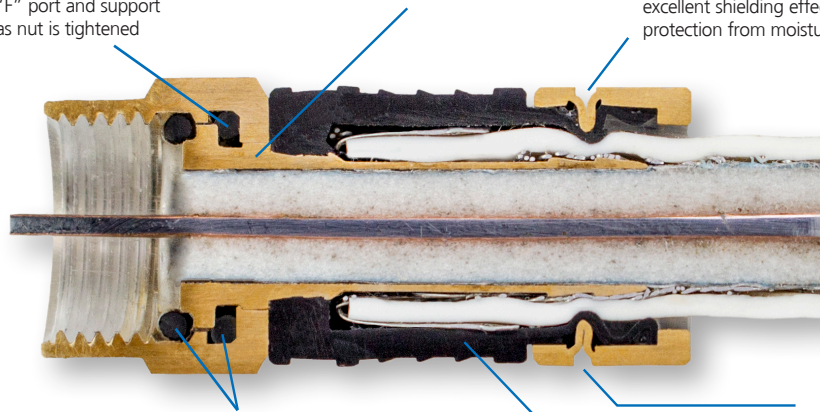


## PCT-FRS-6 Cutaway

Special O-ring cavity permits full metal-to-metal contact between "F" port and support mandrel as nut is tightened

100% brass construction metal compression body, post and nut

Patented 360° metal compression ring provides enhanced cable retention, excellent shielding effectiveness and protection from moisture ingress



Standard cable preparation: 1/4 in. - 5/16 in.

Dual O-rings provide complete weather-sealed protection without the use of separate "F" port seal rings

UV stabilized polymer sleeve provides environmental protection to the cable / connector interface

Visible indicator for proper compression activation



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Call +1.800.306.8948 for more information

2260 W Broadway Rd | Mesa AZ 85202-1898 | USA | [pctinternational.com](http://pctinternational.com)

US Patent Nos. 6042422, 6712631.  
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PCT.DS.CONN.PCT-FRS-6/59.20171204a  
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