COMPRESSION CONNECTORS
The Most Versatile Universal Available
PCT-TRS-6, PCT-TRS-59

PCT INTERNATIONAL

Innovation for the Last Mile™

INNOVATIVE SOLUTIONS

PCT's patented TRS Compression Connectors are designed for fast, convenient installations while retaining superior performance across all cable types. Sealing protection, cable retention and RFI integrity are provided through two compression rings that guarantee performance regardless of cable type - including messenger cable. The TRS also comes with a new plating material that provides the best corrosion resistant finish available.

PCT's TRS compression connectors provide the convenience of one connector for all braid types of Series 6 and Series 59 drop cable, without the traditional compromises associated with universal designs.

Advanced Features

- One connector for each of Series 6 and 59
- Proprietary plating for superior corrosion resistance
- Dual compression rings provide 100% sealing protection on all cable types*
- Dual o-rings provide protection on "F" ports without port seals
- All brass construction avoids plastic creep issues
- Color-coded label with part number for clear identification
- Visible indicators for proper compression activation
- Standard cable preparation: ¼"-¼"
- Compatible with popular universal compression tools
- Conforms to all SCTE specifications
- Universal DRS series available for Series 7 & 11 applications

Ordering Information

▪ PCT-TRS-6	Universal Compression Connector, Series 6, 60% Thru Quad
▪ PCT-TRS-59	Universal Compression Connector, Series 59, 67% Thru Quad

US Patent No. 6,712,631

RoHS

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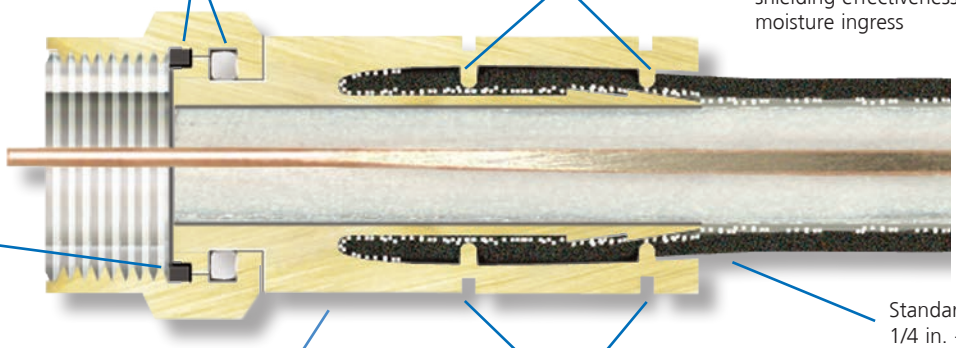
Specifications

Parameter	Specification	Requirement	TRS Results
Cable Retention	ANSI/SCTE 99 2004	> 40 lbs pull force	Pass
Chemical Resistance	BLCR GR-1503-CORE 4.7 3.3	No cracking or swelling	Pass
Corrosion Resistance	BLCR GR-1503-CORE 3.2.1	1,000 hrs salt spray	Pass
Tightening Torque	ANSI/SCTE 88 2004	Tightened to 60 in/lbs without damage	Pass
Insertion Loss	SCTE IPS-TP-201	< 0.05 dB to 350 MHz, < 0.1 dB to 700 MHz, < 0.2 dB to 1 GHz	Pass
Installation Force	ANSI/SCTE 73 2002	< 20 lbs maximum insertion	Pass
Loosening Torque	BLCR GR-1503-CORE 4.2	≥ 30 in/lbs after temperature cycling	Pass
Moisture Migration	ANSI/SCTE 60 2004	No dye penetration after 5 days of temperature cycling	Pass
Ozone Degradation	BLCR GR-1503-CORE 4.1	70 hours exposure	Pass
Return Loss	ANSI/SCTE 04 1997 ANSI/SCTE 05 1999	> 30 dB to 1 GHz	Pass
Salt Fog	ASTM B 117 / SCTE IPS-TP-406	> 30 dB return loss to 1 GHz	Pass
Shielding Effectiveness	ANSI/SCTE 48-2 2003	> 100 dB to 300 MHz, > 90 dB to 1GHz	Pass
Temperature Cycling	BLCR GR-1503 4.1	> 40 lbs. pull force after temperature with humidity cycling	Pass
UV Degradation	BLCR GR-1503-CORE 4.8	UV resistant after 7 days	Pass
Vibration BLCR	GR-1503-CORE 4.6	> 32 in/lbs loosening torque after vibration	Pass
DC Contact Resistance Outer Conductor	SCTE IPS-TP-405	< 5 milliohms	Pass

PCT-TRS-6 Cutaway



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

Patented dual 360° compression rings provide enhanced cable retention, excellent shielding effectiveness and protection from moisture ingress

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

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

One-piece, all brass construction

Visible indicators for proper compression activation

Loosening Torque Test Results

	Tightened to (in/lb)	Torque Required for Removal avg (in / lbs) after temperature cycling	Pass / Fail
PCT-TRS-6L	**40.0**	**36.0**	**Pass**
Competitor A	40.0	13.2	Fail
Competitor B	40.0	11.0	Fail
Competitor C	40.0	14.0	Fail
Competitor D	40.0	14.2	Fail
Competitor E	40.0	13.2	Fail

Note: Five (5) connectors of each type tested. The connectors were installed onto CommScope F660BVV 60% bi-shield drop cable per each manufacturer's instructions. The connectors were then installed on 8-way splitters and each was torqued to 40 in. lbs. The connector splitter assemblies were then temperature cycled with humidity per the following schedule: 14 12-hour temperature cycles from +20 to +60° C and returned to +20° C with 95% humidity at the high temperature point. Temperature extremes were maintained for 3 hours.

US Patent No. 6,712,631

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