

PCT-TRS-59LMG

TRS Compression Connector, Torque Retaining, Continuous Ground
Series 59 60% through Quad-Shield



GENERAL SPECIFICATIONS	
Bandwidth	5 MHz to 3 GHz
Impedance	75 Ohms (Nominal)
Return Loss	Minimum -30 dB to 1 GHz
Shielding Effectiveness	> -100 dB to 300 MHz, > -90 dB to 1 GHz
Insertion Loss	≤ 0.2dB @ 1GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40 to +140 °F (-40 to +60 °C)
Loosened Condition	Continuous ground feature maintains the ground path even in a loosened state
Cable Range	RG59 Cable 60% through Quad-Shield
Acceptable Maximum Core Diameter (Dielectric + Tape)	0.157 in (3.99 mm)
Acceptable Minimum Jacket Diameter	0.240 in ± 0.008 in (6.1 mm ± 0.20 mm)
Acceptable Maximum Jacket Diameter	0.265 in ± 0.008 in (6.73 mm ± 0.20 mm)
Cable Retention	>50 lb (22.68 kg.), Ambient Temperature
Cable Insertion	<15 lb maximum insertion force, Ambient Temperature
PHYSICAL CHARACTERISTICS	
Length Before Compression	1.09 in (27.8 mm)
Mating Mechanism	7/16 Hex 3/8-32 UNEF Threading
Construction Material	Nickel Plated Brass
TOOLING	
Compression Tools *	PCT-AIO-CT, PCT-RH-CT-AS, PCT-TRS-CT, PCT-TRS-CT-AS
PART NUMBER	
PCT-TRS-59LMG	Compression Connector, Torque Retaining, Continuous Ground, Series 59 60% through Quad-Shield

*This list is not all inclusive and only reflects the tooling options available by PCT International, Inc.

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PARAMETER	SPECIFICATIONS REFERENCED	REQUIREMENT / PCT INTERNATIONAL SPECIFIED	RESULT
Cable Retention	ANSI/SCTE 99 2004	> 50 lbs pull force	PASS
Chemical Resistance	BLCR GR-1503-CORE 4.7	No cracking or swelling	PASS
Corrosion Resistance	BLCR GR 1503-CORE 3.2.1	1,000 hours salt spray	PASS
Tightening Torque	ANSI/SCTE 98 2004	Tightened to 60 in /lbs without damage	PASS
Insertion Loss	ANSI/SCTE 73 2007	< 0.05 dB to 350 MHz, < 0.1 dB to 700 MHz, < 0.2 dB to 1 GHz	PASS
Installation Force	ANSI/SCTE 73 2007	< 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 05 2008	> -30 dB to 1 GHz	PASS
Salt Fog	ANSI/SCTE 143 2007	> -30 dB return loss to 1 GHz	PASS
Shielding Effectiveness	ANSI/SCTE 48-1 2007 ANSI/SCTE 48-2 2008	> -100 dB to 300 MHz, > -90 dB to 1 GHz	PASS
Temperature Cycling with Humidity	BLCR GR-1503 4.1	> 50 lbs pull force after temperature 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	ANSI/SCTE 103 2004	< 5 milliohms	PASS

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