



RF Cable Assemblies Technical Data Sheet

PE3C5259-50CM

OUTER BRAID

NNER SHIELD

INNER BRAID

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male Right Angle
- Cable Type: PE-P160LL

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- 0.8 inch Minimum Bend Radius
- Max VSWR of 1.35:1 to 18 GHz
- · Same Day Shipment of Custom Lengths
- · RoHS and REACH Compliant

Applications

- General Purpose
- Laboratory Use

- Automated Test Systems
- Airborne Systems

Phased Arrays

SECTION VIEW

Ø.160 [4.06]

DIELECTRIC

SOLID CENTER

• EW and Countermeasures

Description

The PE3C5259-50CM SMA Male to TNC Male Right Angle Low Loss cable assembly is part of a series of cable assemblies that use our PE-P160LL double shielded coax. The PE-P160LL based cable assemblies are available in a variety of connector configurations operating to a maximum frequency for this cable series of 18 GHz. The PE3C5259-50CM high performance cable assembly with a 82.5% phase velocity offers very low loss performance in a 0.16 inch coax up to 18 GHz. The shielding effectiveness of the PE-P160LL double shielded coax is greater than 95 dB. The durable stainless steel connectors and FEP cable jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. A heavy duty heat shrink booting provides improved strain relief and adds to the durability of the cable assembly.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to TNC Male Right Angle Low Loss Cable 50 CM Length Using PE-P160LL Coax PE3C5259-50CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

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Electrical Specifications

	Minimu	ım	Typical	Maximum	Units
	DC			18	GHz
				1.35:1	
			82.5		%
	90				dB
			25 [82.02]		pF/ft [pF/m]
quency					
F1	F2	F3	F4	F5	Units
1	2	4.5	9	18	GHz
0.3	0.43	0.66	0.94	1.35	dB
	1	90 90 Equency F1 F2 1 2	90 90 F1 F2 F3 1 2 4.5	DC 82.5 90 25 [82.02] equency F1 F2 F3 F4 1 2 4.5 9	DC 18 1.35:1 1.35:1 82.5 90 25 [82.02] 25 equency F1 F2 F3 F4 F5 1 2 4.5 9 18

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.04*SQRT(F(GHz))dB maximum for the straight connector and 0.10*SQRT(F(GHz))dB maximum for the right angle connector.

Mechanical Specifications

Cable Assembly Length*

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Shield Layer 3 Jacket Material Jacket Diameter

Repeated Minimum Bend Radius

19.69 in [500.13 mm]

PE-P160LL 50 Ohms Solid Copper, Silver Expanded PTFE Tape 3 Silver Plated Copper Aluminum Polyester Silver Plated Copper FEP 0.16 in [4.06 mm]

0.8 in [20.32 mm]

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Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	TNC Male Right Angle	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	ASTM-B488	ASTM-B488	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	

Environmental Specifications

Temperature Operating Range

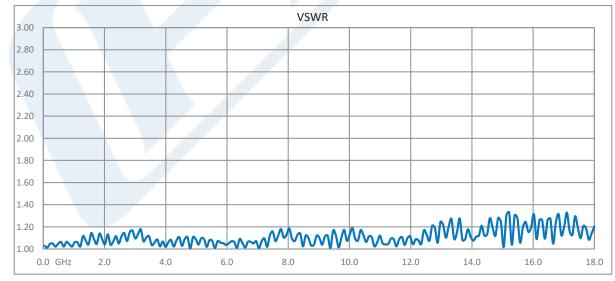
-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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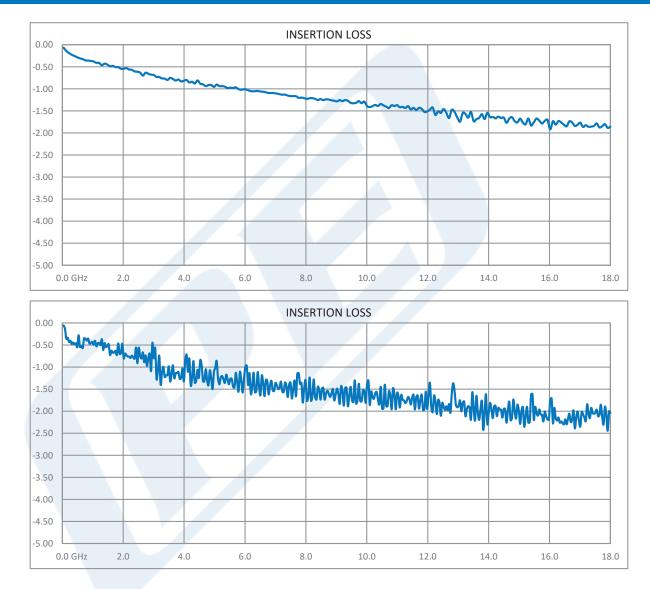
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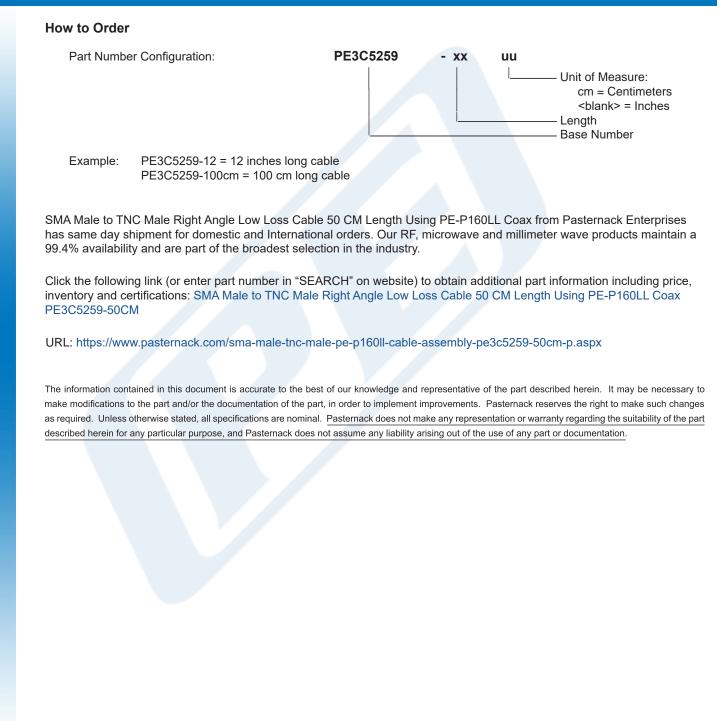
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SMA Male to TNC Male Right Angle Low Loss Cable 50 CM Length Using PE-P160LL Coax

