



# **RF Cable Assemblies Technical Data Sheet**

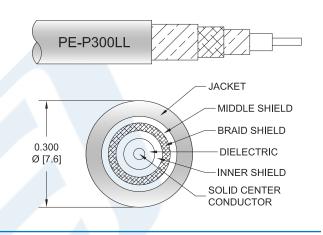
### PE3C2884-200CM

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P300LL

#### Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.40:1 to 18 GHz
- Minimum Bend Radius of 1.5 inches
- Operating Temperature range of -55 to +125 °C
- ROHS and REACH Compliant
- · Same day shipment of custom lengths
- 100% Continuity and RF tested



#### Description

The PE3C2884 high performance test cable's 0.3 inch diameter and 83% phase velocity offer very low loss performance up to 18 GHz. The durable stainless steel connectors and FEP jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. The series is offered with Type N, TNC, and SMA connectors all rated to 18 GHz. A heavy Duty boot provides improved strain relief and adds to the durability of the cable assemblies. These cable assemblies are built using a double shielded flexible cable, providing excellent shielding effectiveness of greater than 95 dB. All PE3C2884 cable assemblies are 100% Continuity and RF tested to published specifications. Custom lengths are built to order and shipped same day.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle to SMA Male Right Angle Low Loss Test Cable 200 cm Length Using PE-P300LL Coax, RoHS PE3C2884-200CM

ISO 9001 : 2008 Registered

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

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# PARE FRANK

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Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.6	0.72	0.98	1.37	1.9	dB
Insertion Loss (Typ.)	0.53	0.66	0.85	1.18	1.63	dB
Power Handling (Max.)	1,800	1,200	900	650	400	Watts

#### **Mechanical Specifications**

Cable Assembly Length\* Diameter

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

78.74 in [200 cm] 0.78 in [19.81 mm]

PE-P300LL 50 Ohms Solid Copper, Silver PTFE 3 Silver Plated Copper Tape Aluminum Polyester Silver Plated Copper Wire FEP, Green 0.3 in [7.62 mm]

1.5 in [38.1 mm]

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# PART REPORT

### PE3C2884-200CM

#### Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male Right Angle	SMA Male Right Angle	
Specification	MIL-STD-348	MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	ASTM-B488 50µ In.	ASTM-B488 50µ In.	
Dielectric Type	PTFE	PTFE	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700	
Hex Size	5/16 Inch	5/16 Inch	
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700	

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm$  3/8", whichever is greater.

#### **Environmental Specifications**

Temperature Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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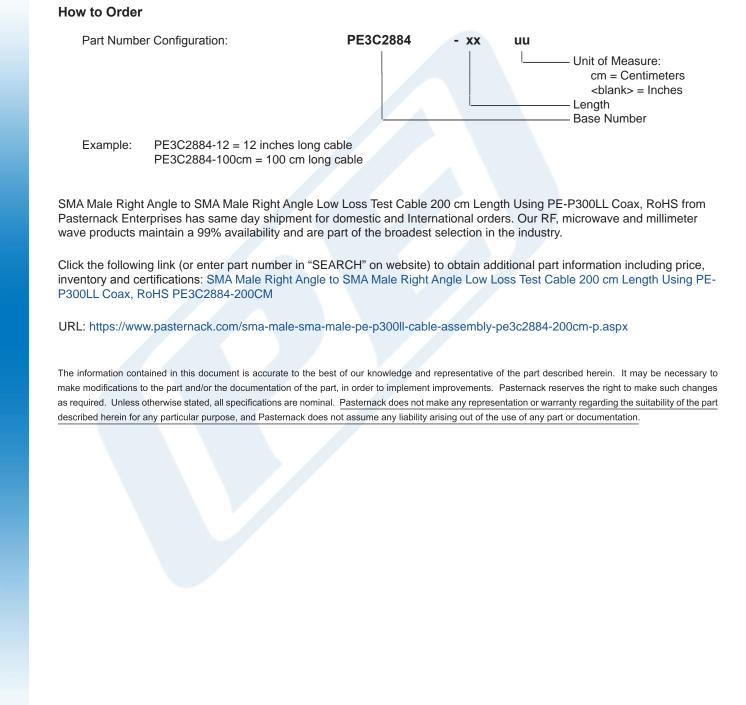
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# PE3C2884-200CM



PE3C2884-200CM REV 1.0



PE3C2884-200CM CAD Drawing SMA Male Right Angle to SMA Male Right Angle Low Loss Test Cable 200 cm Length Using PE-P300LL Coax, RoHS

