



SMC Plug to BNC Male Cable 48 Inch Length Using RG316 Coax

RF Cable Assemblies Technical Data Sheet

PE3C2599-48

Configuration

- Connector 1: SMC Plug
- Connector 2: BNC Male
- Cable Type: RG316

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.41 [27.59]		Ω/1000ft [Ω/Km]
Operating Voltage (AC)			335	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.66	0.78	0.99	1.4	2.38	dB
Insertion Loss (Typ.)	0.64	0.84	1.153	1.72	2.52	dB
VSWR (Max.)	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1	
Return Loss (Max.)	15.56	15.563	15.563	15.563	15.563	dB

Mechanical Specifications

Cable Assembly Length* Diameter	48 in [121.92 cm] 0.57 in [14.48 mm]
Cable Cable Type Impedance	RG316 50 Ohms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMC Plug to BNC Male Cable 48 Inch Length Using RG316 Coax PE3C2599-48

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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Inner Conductor Material and Plating

Inner Conductor Type



ISO 9001 : 2008 Registered



PE3C2599-48

Stranded Copper Clad Steel, Silver PTFE 1 Silver Plated Copper Braid FEP, Tan 0.102 in [2.59 mm]

Connectors

Dielectric Type

Shield Layer 1

Jacket Material

Jacket Diameter

Number of Shields

Description	Connector 1	Connector 2	
Туре	SMC Plug	BNC Male	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification	30 µin minimum	50µ in. minimum	
Dielectric Type	PTFE	Teflon	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100 µin minimum	100µ in. minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	100µ in. minimum	
Hex Size	1/4 inch		

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 +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

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- Notes:
- Values at 25°C, sea level.

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How to Order Part Number Configuration: PE3C2599 uu - XX - Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** PE3C2599-12 = 12 inches long cable Example: PE3C2599-100cm = 100 cm long cable SMC Plug to BNC Male Cable 48 Inch Length Using RG316 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry. Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMC Plug to BNC Male Cable 48 Inch Length Using RG316 Coax PE3C2599-48 URL: https://www.pasternack.com/smc-plug-bnc-male-rg316u-cable-assembly-pe3c2599-48-p.aspx The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE3C2599-48 CAD Drawing SMC Plug to BNC Male Cable 48 Inch Length Using RG316 Coax

