



TNC Male to TNC Female Right Angle Bulkhead Low Loss Cable Using LMR-200 Coax

TECHNICAL DATA SHEET

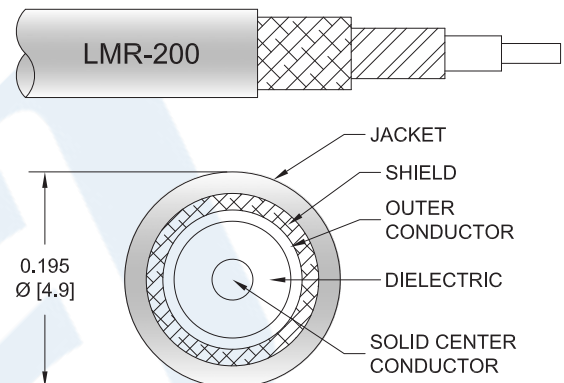
PE3C1029

Configuration

- Connector 1: TNC Male
- Connector 2: TNC Female Right Angle Bulkhead
- Cable Type: LMR-200
- Coax Flex Type: Flexible

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1029 TNC male to TNC female right angle bulkhead cable using LMR-200 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack TNC to TNC cable assembly has a male to female gender configuration with 50 ohm flexible LMR-200 coax. The PE3C1029 TNC male to TNC female cable assembly operates to 5.8 GHz. The right angle TNC interface on the LMR-200 cable allows for easier connections in tight spaces. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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: [TNC Male to TNC Female Right Angle Bulkhead Low Loss Cable Using LMR-200 Coax PE3C1029](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
RF Shielding	90			dB
Group Delay		1.22 [4]		ns/ft [ns/m]
Capacitance		24.5 [80.38]		pF/ft [pF/m]
Inductance		0.061 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		5.36 [17.59]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω /1000ft [Ω /Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
PE3C1029	Custom Lengths Available	Insertion Loss (Typ.)	0.05	0.07	0.1	0.16	0.26	dB/ft	
			0.17	0.24	0.33	0.53	0.86	dB/m	
PE3C1029-24	24 inch	Insertion Loss (Typ.)	0.4	0.45	0.5	0.62	0.82	dB	0.149
PE3C1029-36	36 inch	Insertion Loss (Typ.)	0.45	0.52	0.6	0.78	1.08	dB	0.173
PE3C1029-48	48 inch	Insertion Loss (Typ.)	0.5	0.6	0.7	0.94	1.34	dB	0.197
PE3C1029-60	60 inch	Insertion Loss (Typ.)	0.55	0.67	0.8	1.1	1.6	dB	0.221
PE3C1029-72	72 inch	Insertion Loss (Typ.)	0.6	0.74	0.9	1.26	1.86	dB	0.245

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.118 pounds
Additional Weight per Inch:	0.00184 pounds

Mechanical Specifications

Cable Assembly

Weight	0.125 lbs [56.7 g]
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Cable

Cable Type	LMR-200
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2
Type	TNC Male Threaded	TNC Female Right Angle Bulkhead Threaded
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30μ in. minimum	30 μin minimum
Dielectric Type	Teflon	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100μ in. minimum	100 μin minimum

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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How to Order

Part Number Configuration:

PE3C1029

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C1029-12 = 12 inches long cable
PE3C1029-100cm = 100 cm long cable

TNC Male to TNC Female Right Angle Bulkhead Low Loss Cable Using LMR-200 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: [TNC Male to TNC Female Right Angle Bulkhead Low Loss Cable Using LMR-200 Coax PE3C1029](https://www.pasternack.com/tnc-male-to-tnc-female-right-angle-bulkhead-low-loss-cable-using-lmr-200-pe3c1029-p.aspx)

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