



TNC Male to SMA Male Right Angle Cable
48 Inch Length Using LMR-200 Coax

RF Cable Assemblies Technical Data Sheet

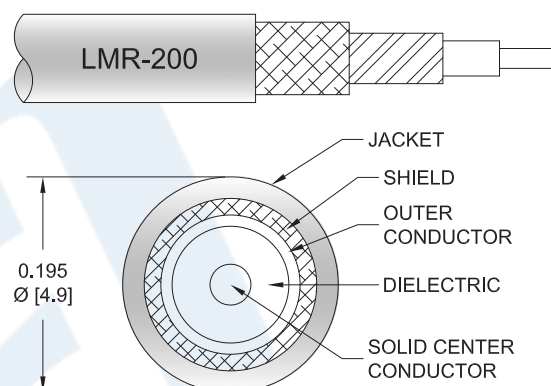
PE3W07265-48

Configuration

- Connector 1: TNC Male
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-200

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W07265-48 TNC male to SMA male right angle 48 inch 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200 coax. The PE3W07265-48 TNC male to SMA male cable assembly operates to 3 GHz. The right angle SMA interface on the LMR-200 cable allows for easier connections in tight spaces. 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 SMA Male Right Angle Cable 48 Inch Length Using LMR-200 Coax PE3W07265-48](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
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 Km]		5.36 [17.59]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor Km]		4.9 [16.08]		Ohms/1000ft [Ohms/
Jacket Spark			3,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.5	0.6	0.72	0.98	1.04	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm]

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

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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	SMA Male Right Angle
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Gold
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Gold
Hex Size	5/8 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 -40 to +85 deg C

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

Plotted and Other Data

Notes:

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PE3W07265-48

How to Order

Part Number Configuration:

PE3W07265

- **xx**

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

Example: PE3W07265-12 = 12 inches long cable
PE3W07265-100cm = 100 cm long cable

TNC Male to SMA Male Right Angle Cable 48 Inch Length 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 SMA Male Right Angle Cable 48 Inch Length Using LMR-200 Coax PE3W07265-48](https://www.pasternack.com/tnc-male-sma-male-lmr200-cable-assembly-pe3w07265-48-p.aspx)

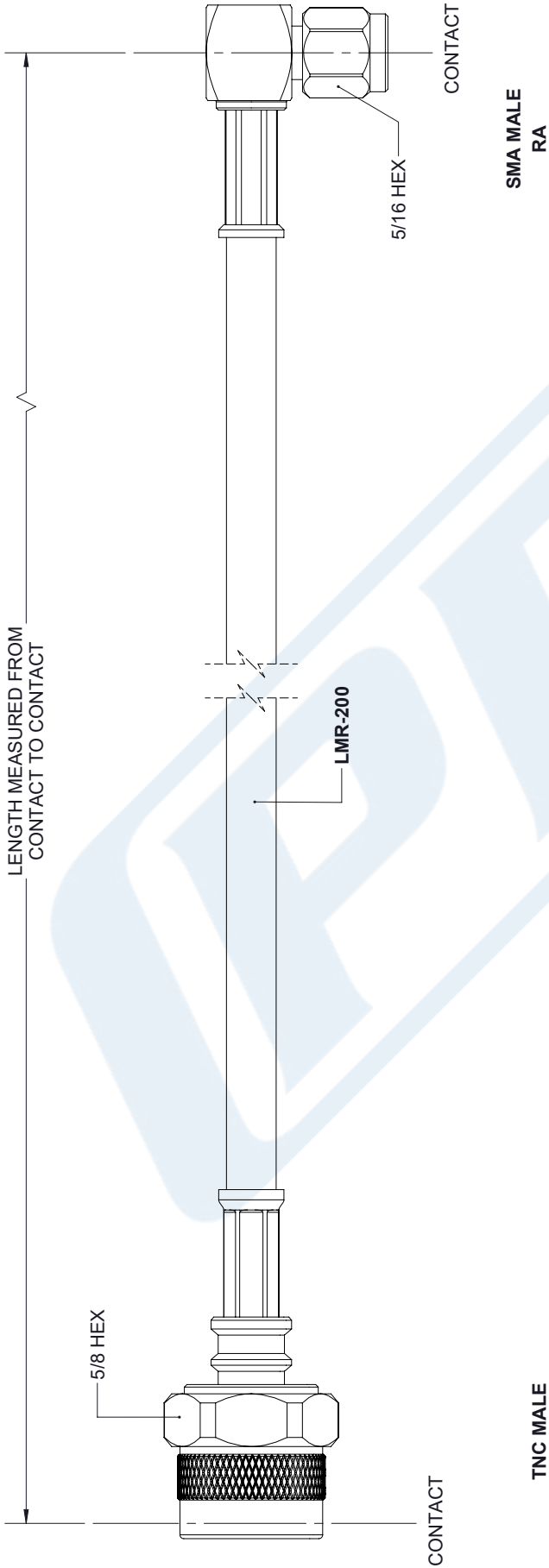
URL: <https://www.pasternack.com/tnc-male-sma-male-lmr200-cable-assembly-pe3w07265-48-p.aspx>

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PE3W07265-48 CAD Drawing

TNC Male to SMA Male Right Angle Cable 48 Inch Length Using LMR-200 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/19/19	SELLIS



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SIZE A	CAGE 53919	DRAWN BY K.DANG	REV A
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		PART NUMBER PE3W07265	
TOLERANCES: X±.2 [5.08] XX±.01 [.25] XXX±.005 [.13]		FRACTIONS ±1/32 ANGLES ±1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		THIRD-ANGLE PROJECTION	
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