



Fire Rated BNC Male Right Angle to TNC Male Right Angle
Low Loss Cable Using LMR-200-FR Coax

RF Cable Assemblies Technical Data Sheet

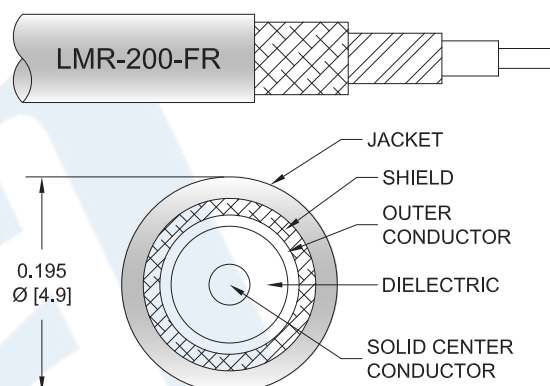
PE3W12425

Configuration

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

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- FRPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12425 BNC male right angle to TNC male right angle cable using LMR-200-FR 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 BNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200-FR coax. The PE3W12425 BNC male to TNC male cable assembly operates to 4 GHz. The right angle BNC and right angle TNC interfaces on the LMR-200-FR cable allow 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: [Fire Rated BNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-200-FR Coax PE3W12425](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	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

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.031	0.05	0.073	0.104	0.212	dB/ft
	0.1	0.16	0.24	0.34	0.7	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

RF leakage: 60dB min at 3GHz

Mechanical Specifications

Cable Assembly

Weight 0.136 lbs [61.69 g]

Cable

Cable Type	LMR-200-FR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	FRPE, Black
Jacket Diameter	0.195 in [4.95 mm]

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One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	2 lbs-ft [2.71 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	BNC Male Right Angle	TNC Male Right Angle
Specification	MIL-C-39012	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30µ In. Min	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification		100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

Operating Range	-40 to +165 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25° C, sea level

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PE3W12425

How to Order

Part Number Configuration:

PE3W12425

- **xx**

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

Example: PE3W12425-12 = 12 inches long cable
PE3W12425-100cm = 100 cm long cable

Fire Rated BNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-200-FR 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.

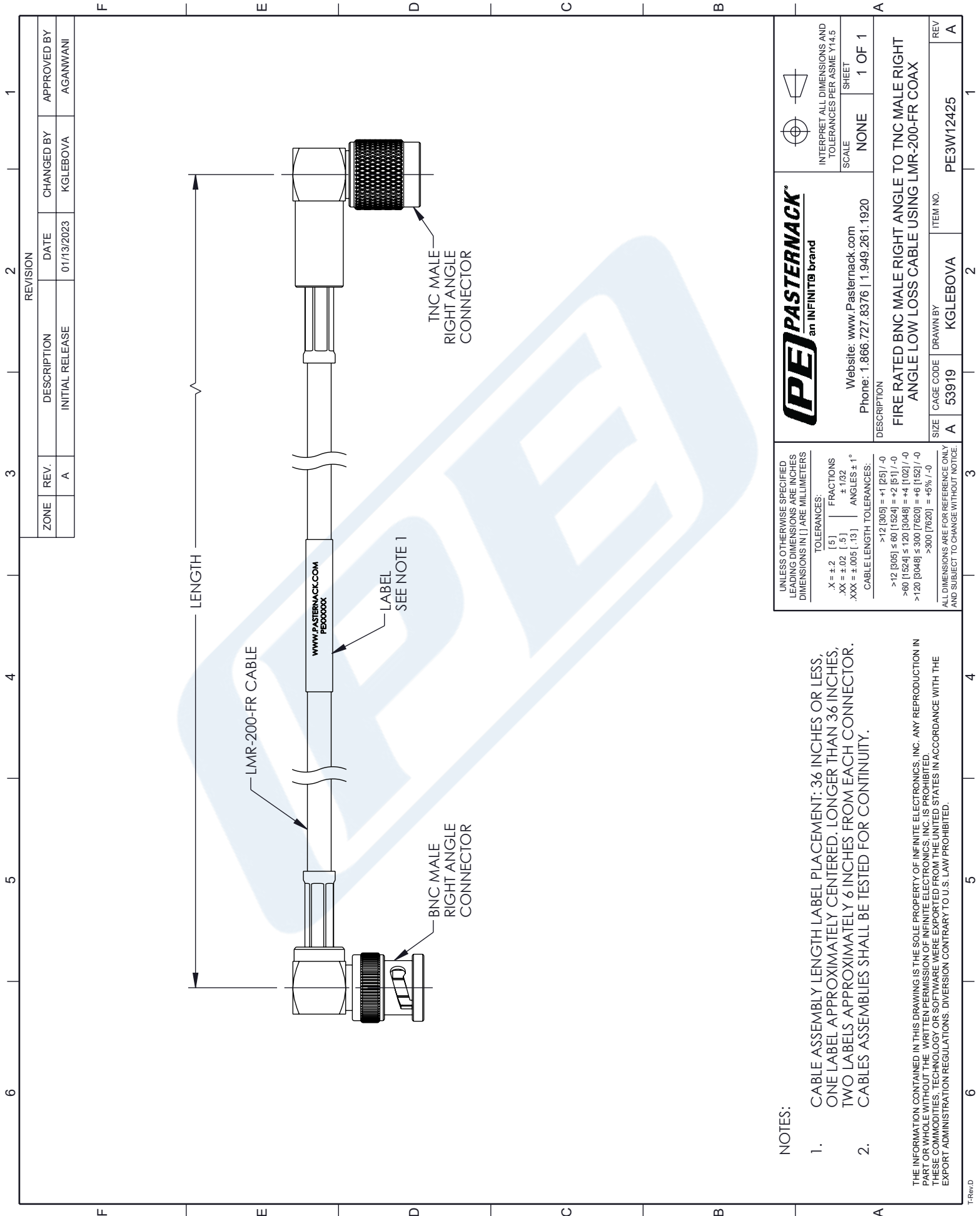
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated BNC Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-200-FR Coax PE3W12425](https://www.pasternack.com/fire-rated-bnc-male-right-angle-to-tnc-male-low-loss-cable-using-lmr-200-fr-pe3w12425-p.aspx)

URL: <https://www.pasternack.com/fire-rated-bnc-male-right-angle-to-tnc-male-low-loss-cable-using-lmr-200-fr-pe3w12425-p.aspx>

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PE3W12425 CAD Drawing

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NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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PASTERNAK an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION: FIRE RATED BNC MALE RIGHT ANGLE TO TNC MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-200-FR COAX	
SIZE: A	CAGE CODE: 53919	DRAWN BY: KGLEBOVA	ITEM NO.: PE3W12425
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.			

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ±.2 [5]	FRACTIONS ±.1/32	ANGLES ± 1°
.XX = ±.02 [.5]		
.XXX = ±.005 [.13]		

CABLE LENGTH TOLERANCES:

>12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0