

Fire Rated SMA Male Right Angle to N Male Right Angle
Low Loss Cable Using LMR-200-FR Coax



RF Cable Assemblies Technical Data Sheet

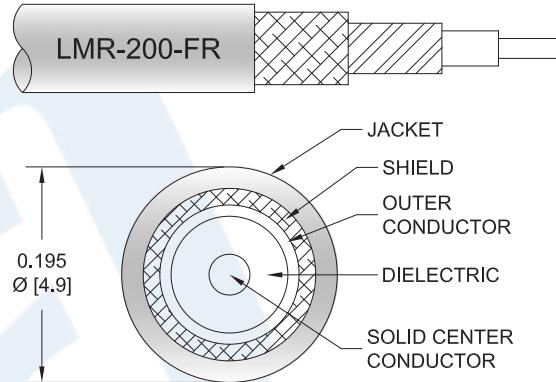
PE3W12426

Configuration

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

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12426 SMA male right angle to type N 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 SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200-FR coax. The PE3W12426 SMA male to type N male cable assembly operates to 5.8 GHz. The right angle SMA and right angle type N 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 SMA Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-200-FR Coax PE3W12426](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
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	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.05	0.073	0.104	0.169	0.264	dB/ft
	0.16	0.24	0.34	0.55	0.87	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.

Mechanical Specifications

Cable Assembly

Weight	0.151 lbs [68.49 g]
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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]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]

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Bending Moment
Flat Plate Crush
Tensile Strength

2 lbs-ft [2.71 N-m]
15 lbs/in [0.27 Kg/mm]
40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Gold	Brass, Nickel

Environmental Specifications

Temperature

Operating Range

-40 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3W12426

How to Order

Part Number Configuration:

PE3W12426- **xx****uu**

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

Example: PE3W12426-12 = 12 inches long cable
PE3W12426-100cm = 100 cm long cable

Fire Rated SMA Male Right Angle to N 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.

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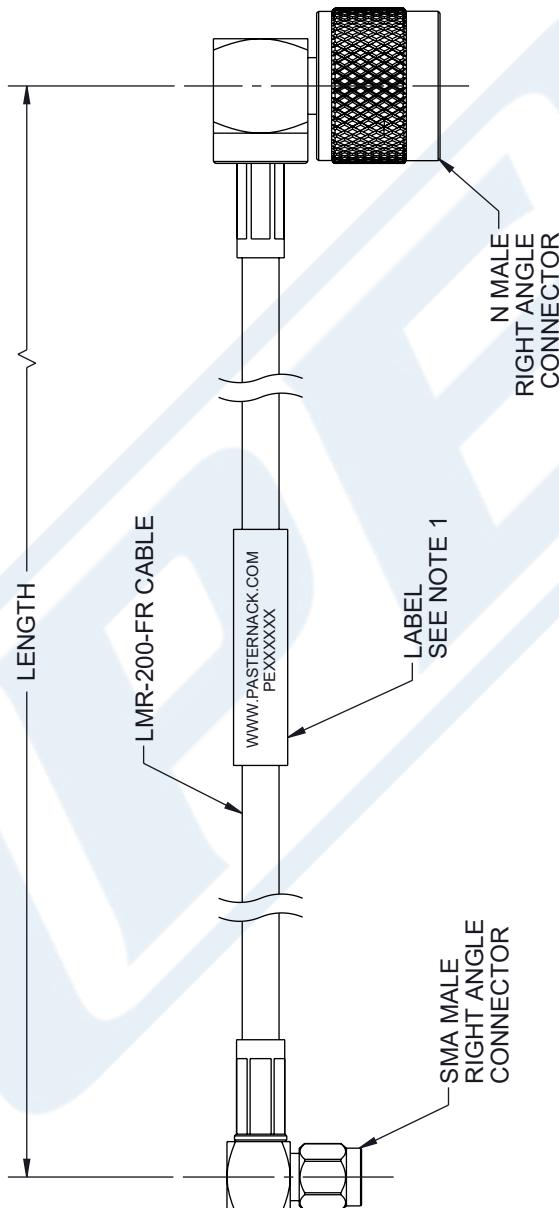
URL: <https://www.pasternack.com/fire-rated-sma-male-right-angle-to-n-male-low-loss-cable-using-lmr-200-fr-pe3w12426-p.aspx>

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PE3W12426 CAD Drawing

Fire Rated SMA Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-200-FR Coax

ZONE	REV.	DESCRIPTION	REV. VERSION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE		01/12/2023	HBKKE	AGANWANI



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.
CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES:		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE ITEM NO. PE3W/12426 REV A	
$X \leq .2$ $XX \leq \pm .02$ $XXX \leq .005$	FRACTIONS $[5]$ $\pm 1/32$ ANGLES $[5]$ $\pm 1^\circ$	CABLE LENGTH TOLERANCES: $>12 [305] \leq +1 [25] / -0$ $>60 [1524] \leq +20 [3048] = +4 [102] / -0$ $>120 [3048] \leq +300 [7620] = +6 [152] / -0$ $>300 [7620] = +5\% / -0$	WEBSITE: www.Pasternack.com PHONE: 1.866.727.8376 1.949.261.1920
DESCRIPTION FIRE RATED SMA MALE RIGHT ANGLE TO N MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-200-FR COAX	SIZE A	CAGE CODE 53919	DRAWN BY HBAKKE
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.			