

N Male to N Male Low Loss Cable Using LMR-200-UF Coax with Times Microwave Components with HeatShrink



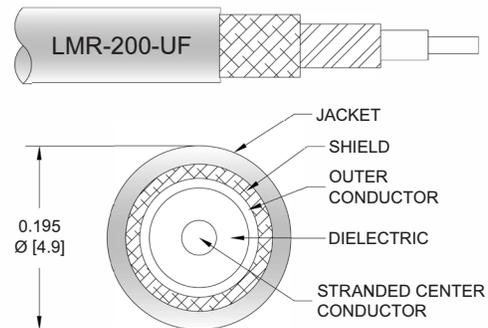
PE3C2807/HS

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-200-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- TPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C2807/HS type N male to type N male cable using LMR-200-UF 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 type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200-UF coax. The PE3C2807/HS type N male to type N male cable assembly operates to 6 GHz. 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	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		7.5 [24.61]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (AC)			1,000	Vrms

N Male to N Male Low Loss Cable Using LMR-200-UF
Coax with Times Microwave Components with HeatShrink



PE3C2807/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C2807/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.061	0.087	0.125	0.202	0.316	dB/ft	
			0.21	0.29	0.42	0.67	1.04	dB/m	
PE3C2807/HS-12	12 Inch	Insertion Loss (Typ.)	0.27	0.29	0.33	0.41	0.52	dB	0.188
PE3C2807/HS-24	24 Inch	Insertion Loss (Typ.)	0.33	0.38	0.45	0.61	0.84	dB	0.211
PE3C2807/HS-36	36 Inch	Insertion Loss (Typ.)	0.39	0.47	0.58	0.81	1.15	dB	0.233
PE3C2807/HS-60	60 Inch	Insertion Loss (Typ.)	0.51	0.64	0.83	1.21	1.78	dB	0.277
PE3C2807/HS-300	300 Inch	Insertion Loss (Typ.)	1.73	2.38	3.33	5.25	8.1	dB	0.718

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:	0.1 dB
Base Weight:	0.188 pounds
Additional Weight per Inch:	0.00184 pounds

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.19 lbs [86.18 g]

Cable

Cable Type	LMR-200-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
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	TPE, 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	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

N Male to N Male Low Loss Cable Using LMR-200-UF
Coax with Times Microwave Components with HeatShrink



PE3C2807/HS

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	13/16 Inch	13/16 Inch

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

N Male to N Male Low Loss Cable Using LMR-200-UF Coax with Times Microwave Components with HeatShrink

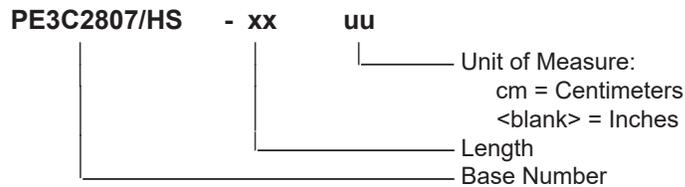


PE3C2807/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C2807/HS-12 = 12 inches long cable
PE3C2807/HS-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using LMR-200-UF Coax with Times Microwave Components with HeatShrink 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: [N Male to N Male Low Loss Cable Using LMR-200-UF Coax with Times Microwave Components with HeatShrink PE3C2807/HS](#)

URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-lmr-200-uf-with-heatshrink-pe3c2807-hs-p.aspx>

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C2807/HS CAD Drawing

N Male to N Male Low Loss Cable Using LMR-200-UF Coax with Times Microwave Components with HeatShrink

