

## N Male to QD QMA Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink



### PE3W18558/HS

#### Configuration

- Connector 1: N Male
- Connector 2: QD QMA Male
- Cable Type: LMR-240-UF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W18558/HS type N male to QMA male QD cable using LMR-240-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 QMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W18558/HS type N male to QMA male cable assembly operates to 8 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		8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W18558/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.046	0.066	0.095	0.155	0.212	dB/ft	
			0.16	0.22	0.32	0.51	0.7	dB/m	
PE3W18558/HS-12	12 inch	Insertion Loss (Typ.)	0.43	0.45	0.48	0.54	0.6	dB	0.2
PE3W18558/HS-24	24 inch	Insertion Loss (Typ.)	0.48	0.52	0.57	0.69	0.81	dB	0.233
PE3W18558/HS-36	36 inch	Insertion Loss (Typ.)	0.52	0.58	0.67	0.85	1.02	dB	0.265
PE3W18558/HS-60	60 inch	Insertion Loss (Typ.)	0.61	0.71	0.86	1.16	1.44	dB	0.329
PE3W18558/HS-300	300 inch	Insertion Loss (Typ.)	1.53	2.03	2.76	4.26	5.68	dB	0.969

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:	0.28 dB
Base Weight:	0.2 pounds
Additional Weight per Inch:	0.00267 pounds

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.168 lbs [76.2 g]

##### Cable

Cable Type	LMR-240-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	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.13 lbs-ft [0.18 N-m]
Flat Plate Crush	13 lbs/in [0.23 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

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**Connectors**

Description	Connector 1	Connector 2
Type	N Male	QMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method		QD
Mating Cycles		100
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal
Body Plating Specification	100 µin minimum	80 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin minimum	80 µin minimum

**Environmental Specifications**

Operating Range Temperature -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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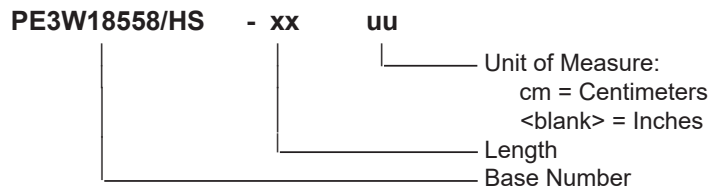


### PE3W18558/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3W18558/HS-12 = 12 inches long cable  
PE3W18558/HS-100cm = 100 cm long cable

N Male to QD QMA Male Low Loss Cable Using LMR-240-UF Coax 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 QD QMA Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink PE3W18558/HS](#)

URL: <https://www.pasternack.com/n-male-to-qd-qma-male-low-loss-cable-using-lmr-240-uf-with-heatshrink-pe3w18558-hs-p.aspx>

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