



RF Cable Assemblies Technical Data Sheet

PE3W09859

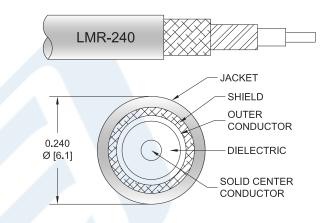
Configuration

Connector 1: TNC Male Reverse Polarity
Connector 2: N Female Bulkhead

• Cable Type: LMR-240

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- · Double Shielded
- PE Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3W09859 reverse polarity TNC male to type N female bulkhead cable using LMR-240 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 reverse polarity TNC to type N cable assembly has a male to female gender configuration with 50 ohm flexible LMR-240 coax. The PE3W09859 reverse polarity TNC male to type N female cable assembly operates to 5.8 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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: Reverse Polarity TNC Male to N Female Bulkhead Low Loss Cable Using LMR-240 Coax PE3W09859

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR		750	1.45:1	
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		3.2 [10.5]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	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.)	0.04	0.06	0.08	0.13	0.2	dB/ft
	0.13	0.2	0.26	0.43	0.66	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.81 in [20.57 mm]

Cable

Cable TypeLMR-240Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePE (F)Number of Shields2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material PE, Black

Jacket Material PE, Black

Jacket Diameter 0.24 in [6.1 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

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Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 2.5 in [63.5 mm] 0.25 lbs-ft [0.34 N-m] 20 lbs/in [0.36 Kg/mm] 80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2 N Female Bulkhead	
Туре	TNC Male Reverse Polarity		
Specification		MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500		
Contact Material and Plating	Phosphor Bronze, Gold	Beryllium Copper, Gold	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal	
Coupling Nut Material and Plating	Brass, Nickel		

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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How to Order



Example: PE3W09859-12 = 12 inches long cable PE3W09859-100cm = 100 cm long cable

Reverse Polarity TNC Male to N Female Bulkhead Low Loss Cable Using LMR-240 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/tnc-male-n-female-lmr240-cable-assembly-pe3w09859-p.aspx

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

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PE3W09859 CAD DrawingReverse Polarity TNC Male to N Female Bulkhead Low Loss Cable Using LMR-240 Coax

