

TNC Male Right Angle to TNC Female Right Angle Bulkhead Low Loss Cable Using LMR-200 Coax with HeatShrink and 90 Deg. Clock



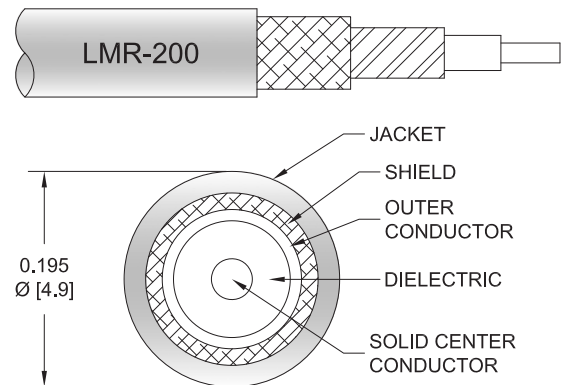
PE3W00390/SP1

Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: TNC Female Right Angle Bulkhead
- Cable Type: LMR-200
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00390/SP1 TNC male right angle to TNC female right angle bulkhead cable using LMR-200 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 TNC to TNC cable assembly has a male to female gender configuration with 50 ohm flexible LMR-200 coax. The PE3W00390/SP1 TNC male to TNC female cable assembly operates to 8 GHz. The right angle TNC interfaces on the LMR-200 cable allow for easier connections in tight spaces. Our RF cable assembly with TNC 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]

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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	
PE3W00390/SP1	Custom Lengths Available	Insertion Loss (Typ.)	0.051	0.073	0.104	0.169	0.264	dB/ft	
			0.17	0.24	0.35	0.56	0.87	dB/m	
PE3W00390/SP1-24	24 inch	Insertion Loss (Typ.)	0.51	0.55	0.61	0.74	0.93	dB	0.187
PE3W00390/SP1-36	36 inch	Insertion Loss (Typ.)	0.56	0.62	0.72	0.91	1.2	dB	0.211
PE3W00390/SP1-48	48 inch	Insertion Loss (Typ.)	0.61	0.7	0.82	1.08	1.46	dB	0.235
PE3W00390/SP1-60	60 inch	Insertion Loss (Typ.)	0.66	0.77	0.92	1.25	1.72	dB	0.259
PE3W00390/SP1-72	72 inch	Insertion Loss (Typ.)	0.71	0.84	1.03	1.42	1.99	dB	0.283

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.163 pounds
Additional Weight per Inch:	0.002 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.139 lbs [63.05 g]

Cable

Cable Type	LMR-200
Impedance	50 Ohms
Inner Conductor Type	Solid
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	PE, 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	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	TNC Female Right Angle Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	

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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PE3W00390/SP1

Typical Performance Data

How to Order

Part Number Configuration: **PE3W00390/SP1** - **xx** **uu**

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

Example: PE3W00390/SP1-12 = 12 inches long cable
 PE3W00390/SP1-100cm = 100 cm long cable

TNC Male Right Angle to TNC Female Right Angle Bulkhead Low Loss Cable Using LMR-200 Coax with HeatShrink and 90 Deg. Clock 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.

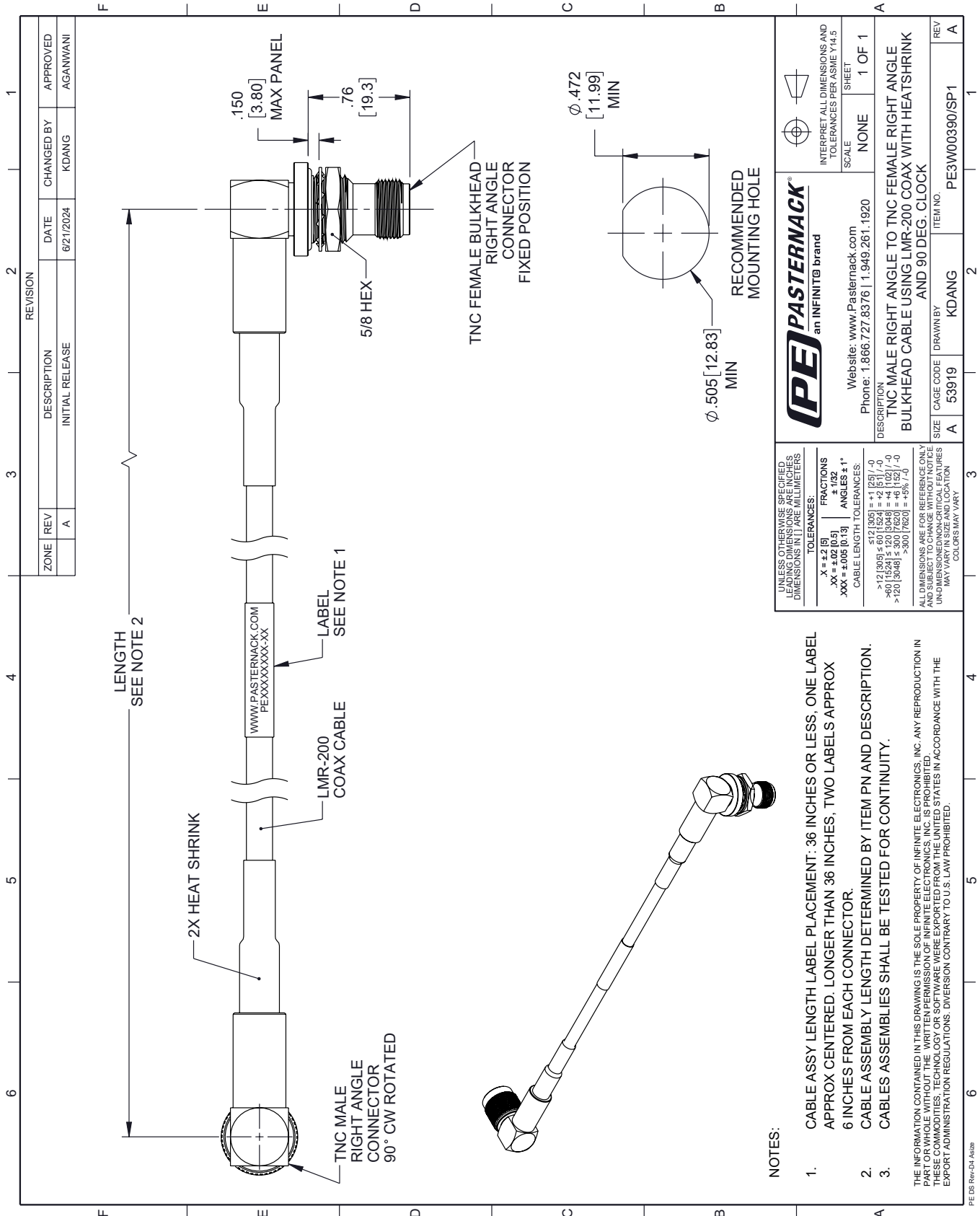
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to TNC Female Right Angle Bulkhead Low Loss Cable Using LMR-200 Coax with HeatShrink and 90 Deg. Clock PE3W00390/SP1](#)

URL: <https://www.pasternack.com/tnc-male-right-angle-to-tnc-female-bulkhead-low-loss-cable-using-lmr-200-with-heatshrink-and-90-deg.-clock-pe3w00390-sp1-p.aspx>

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PE3W00390/SP1 CAD Drawing

TNC Male Right Angle to TNC Female Right Angle Bulkhead Low Loss Cable
Using LMR-200 Coax with HeatShrink and 90 Deg. Clock



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	6/21/2024	KDANG	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

PASTERNAK an INFINITB 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 TNC MALE RIGHT ANGLE TO TNC FEMALE RIGHT ANGLE BULKHEAD CABLE USING LMR-200 COAX WITH HEATSHRINK AND 90 DEG. CLOCK		
SIZE	CAGE CODE	ITEM NO.
A	53919	PE3W00390/SP1
REV	REV	REV
A	A	A

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS
 ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ± .60 [15.24] = ± 2 [51] / -0
 > 12 [305] ≤ 60 [1524] = ± 4 [102] / -0
 > 60 [1524] ≤ 120 [3048] = ± 4 [102] / -0
 > 120 [3048] ≤ 300 [7620] = ± 5% [1.4]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

- NOTES:**
- CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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