



MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax

TECHNICAL DATA SHEET

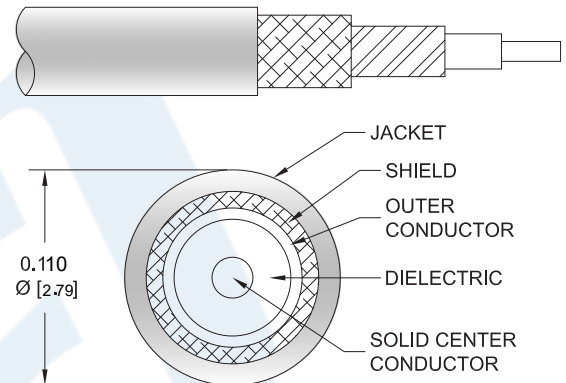
PE3W04793

Configuration

- Connector 1: MMCX Plug
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04793 MMCX plug to TNC male right angle cable using LMR-100 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 MMCX to TNC cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W04793 MMCX plug to TNC male cable assembly operates to 6 GHz. The right angle TNC interface on the LMR-100A cable allows 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: [MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax PE3W04793](#)



MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax

TECHNICAL DATA SHEET

PE3W04793

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω /1000ft [Ω /Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3W04793	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.17	0.24	0.4	0.64	dB/ft	
			0.4	0.56	0.79	1.32	2.1	dB/m	
PE3W04793-24	24 inch	Insertion Loss (Typ.)	0.54	0.64	0.78	1.1	1.58	dB	0.074
PE3W04793-36	36 inch	Insertion Loss (Typ.)	0.66	0.81	1.02	1.5	2.22	dB	0.083
PE3W04793-48	48 inch	Insertion Loss (Typ.)	0.78	0.98	1.26	1.9	2.86	dB	0.092
PE3W04793-100CM	100 cm	Insertion Loss (Typ.)	0.7	0.86	1.09	1.62	2.4	dB	0.086
PE3W04793-200CM	200 cm	Insertion Loss (Typ.)	1.09	1.42	1.88	2.93	4.5	dB	0.116

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:	0.1 dB
Base Weight:	0.065 pounds
Additional Weight per Inch:	0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight	0.065 lbs [29.48 g]
--------	---------------------

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax PE3W04793](#)



MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax

TECHNICAL DATA SHEET

PE3W04793

Cable

Cable Type	LMR-100A
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug Push-On	TNC Male Right Angle Threaded
Specification	BS EN 122340	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	POM
Outer Conductor Material and Plating	Brass, Gold	
Outer Conductor Plating Specification	3 µin minimum	
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3 µin minimum	

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax PE3W04793](#)



MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax

TECHNICAL DATA SHEET

PE3W04793

How to Order

Part Number Configuration:

PE3W04793

- **xx**

uu

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

Example: PE3W04793-12 = 12 inches long cable
PE3W04793-100cm = 100 cm long cable

MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax PE3W04793](#)

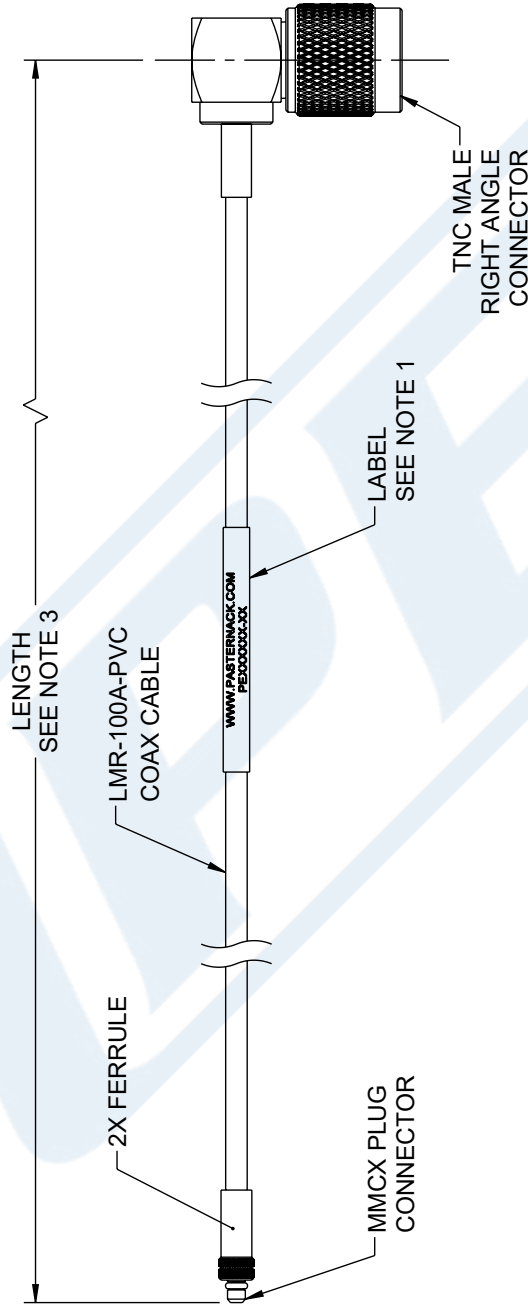
URL: <https://www.pasternack.com/mmcx-plug-to-tnc-male-low-loss-cable-using-lmr-100-pe3w04793-p.aspx>

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.

PE3W04793 CAD Drawing

MMCX Plug to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	09/27/2023	HBAKKE	AGANWANI



NOTES:

- 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.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [] ARE MILLIMETERS		 		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:				SCALE NONE	
.X = ±.2 [5]		FRACTIONS ± 1/32		SHEET 1 OF 1	
.XX = ±.02 [0.5]		ANGLES ± 1°			
.XXX = ±.005 [0.13]					
CABLE LENGTH TOLERANCES:					
<12 [305] = ±.1 [25] / -0					
>12 [305] ≤ 60 [1524] = ±.2 [5] / -0					
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0					
>120 [3048] ≤ 300 [7620] = ±.6 [152] / -0					
>300 [7620] = +.5% / -0					
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY		SIZE A		DESCRIPTION MMCX PLUG TO TNC MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-100 COAX	
		CAGE CODE 53919		ITEM NO. PE3W04793	
		DRAWN BY HBAKKE		REV A	