



TNC Male to Reverse Polarity TNC Male Low Loss
Cable 24 Inch Length Using LMR-195 Coax

RF Cable Assemblies Technical Data Sheet

PE3W09029-24

Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male Reverse Polarity
- Cable Type: LMR-195

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

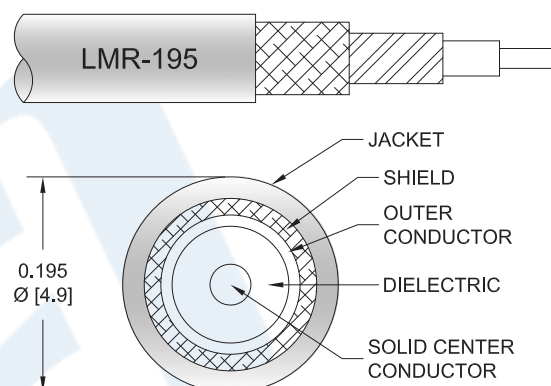
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09029-24 TNC male to reverse polarity TNC male 24 inch cable using LMR-195 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 reverse polarity TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3W09029-24 TNC male to reverse polarity TNC male cable assembly operates to 5.8 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.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to Reverse Polarity TNC Male Low Loss Cable 24 Inch Length Using LMR-195 Coax PE3W09029-24](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω/1000ft [Ω/Km]
Jacket Spark			3,000	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.)	0.31	0.36	0.43	0.57	0.79	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length*	24 in [609.6 mm]
Diameter	0.591 in [15.01 mm]

Cable

Cable Type	LMR-195
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]

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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]

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male Reverse Polarity
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µinches minimum
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µinches minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W09029

- **xx**

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

Example: PE3W09029-12 = 12 inches long cable
PE3W09029-100cm = 100 cm long cable

TNC Male to Reverse Polarity TNC Male Low Loss Cable 24 Inch Length Using LMR-195 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.

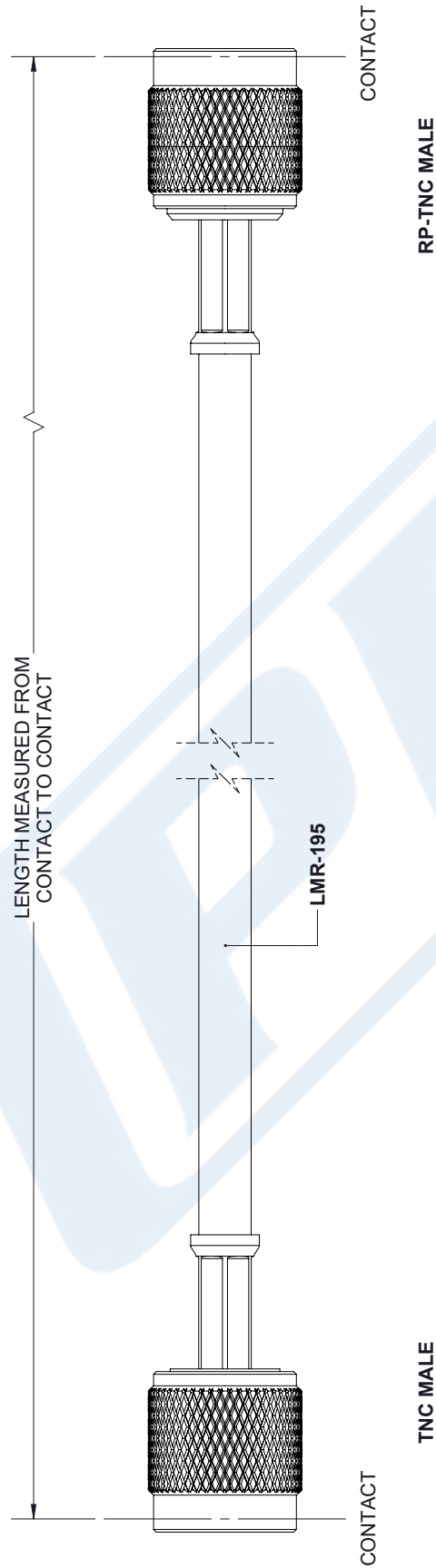
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to Reverse Polarity TNC Male Low Loss Cable 24 Inch Length Using LMR-195 Coax PE3W09029-24](https://www.pasternack.com/tnc-male-tnc-male-lmr195-cable-assembly-pe3w09029-24-p.aspx)

URL: <https://www.pasternack.com/tnc-male-tnc-male-lmr195-cable-assembly-pe3w09029-24-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.

PE3W09029-24 CAD Drawing

TNC Male to Reverse Polarity TNC Male Low Loss Cable
24 Inch Length Using LMR-195 Coax



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/9/2020	SELLIS

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS				THIRD-ANGLE PROJECTION			
TOLERANCES:				 THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.			
X = ± .02 [5.08] FRACTIONS XX = ± .02 [.51] ± 1/32 XXX = ± .005 [.13] ANGLES ± 1°				SHEET 1 OF 1			
CABLE LENGTH (L) TOLERANCES:				SCALE N/A			
L ≤ 12 [305] = ± .1 [25] / -0 12 [305] < L ≤ 60 [1524] = ± .2 [51] / -0 60 [1524] < L ≤ 120 [3048] = ± .4 [102] / -0 120 [3048] < L ≤ 300 [7620] = ± .6 [152] / -0 300 [7620] < L = ±5% L / -0							
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				SIZE A	CAGE CODE 53919	DRAWN BY K.DANG	ITEM NO. PE3W09029
				REV		A	

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