



N Female to Reverse Polarity TNC Female Cable
100 cm Length Using LMR-195 Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

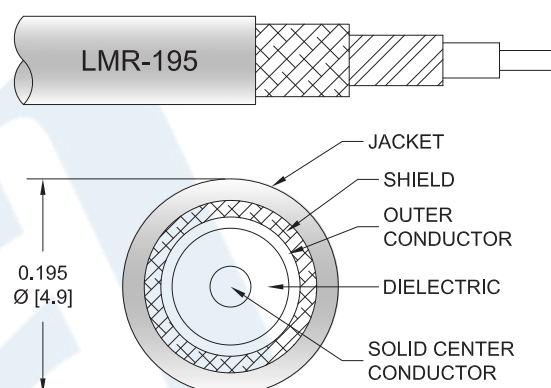
PE3W05123LF-100CM

Configuration

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

Features

- Max Frequency 5 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05123LF-100CM type N female to reverse polarity TNC female 100 cm 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 type N to reverse polarity TNC cable assembly has a female to female gender configuration with 50 ohm flexible LMR-195 coax. The PE3W05123LF-100CM type N female to reverse polarity TNC female cable assembly operates to 5 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: [N Female to Reverse Polarity TNC Female Cable 100 cm Length Using LMR-195 Coax , LF Solder PE3W05123LF-100CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5	GHz
VSWR			1.5:1	
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 Km]		7.6 [24.93]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor Km]		4.9 [16.08]		Ohms/1000ft [Ohms/
Jacket Spark			3,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5	GHz
Insertion Loss (Max.)	0.38	0.42	0.49	0.83	1.07	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm]

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

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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]

Connectors

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

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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

Plotted and Other Data

Notes:

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**N Female to Reverse Polarity TNC Female Cable
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PE3W05123LF-100CM

How to Order

Part Number Configuration:

PE3W05123LF

- xx

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

Example: PE3W05123LF-12 = 12 inches long cable
PE3W05123LF-100cm = 100 cm long cable

N Female to Reverse Polarity TNC Female Cable 100 cm Length Using LMR-195 Coax , LF Solder 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.

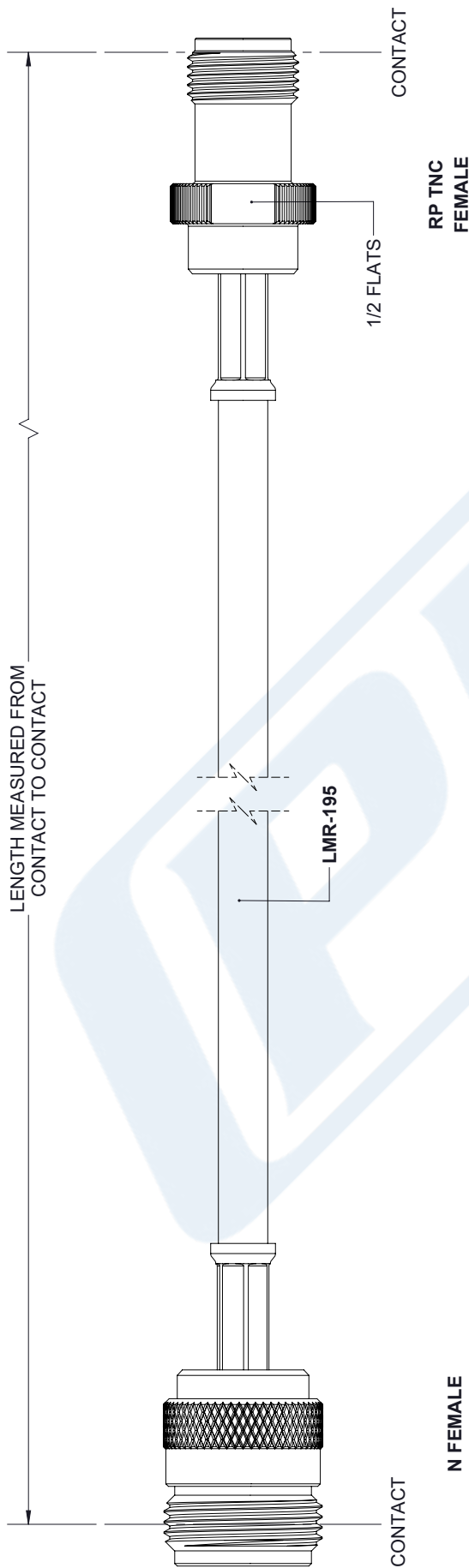
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to Reverse Polarity TNC Female Cable 100 cm Length Using LMR-195 Coax , LF Solder PE3W05123LF-100CM](https://www.pasternack.com/n-female-tnc-female-lmr195-cable-assembly-pe3w05123lf-100cm-p.aspx)

URL: <https://www.pasternack.com/n-female-tnc-female-lmr195-cable-assembly-pe3w05123lf-100cm-p.aspx>

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PE3W05123LF-100CM CAD Drawing
N Female to Reverse Polarity TNC Female Cable 100 cm
Length Using LMR-195 Coax , LF Solder

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [.25]	±.132
.XXX±.005 [.13]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

PE PASTERNAK an INFINITO brand	
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SIZE	PART NUMBER
A	PE3W05123LF
CAGE	DRAWN BY
53919	K.DANG
SCALE	REV
N/A	A
SHEET	OF
1	1

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