

50 Ohm TNC Male to 75 Ohm N Male Cable Using 75 Ohm RG59 Coax



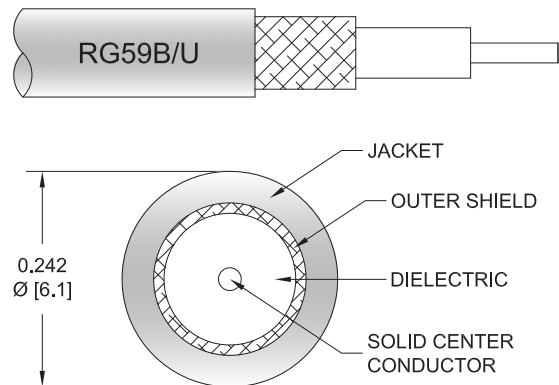
PE3W13755

Configuration

- Connector 1: TNC Male
- Connector 2: N Male
- Cable Type: RG59
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC (NC) Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W13755 50 ohm TNC male to 75 ohm type N male cable using 75 ohm RG59 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 type N cable assembly has a male to male gender configuration with 75 ohm flexible RG59 coax. The PE3W13755 TNC male to type N male cable assembly operates to 1 GHz.

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		1	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		20.4 [66.93]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

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PE3W13755

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	100	250	500	1000	
PE3W13755	Custom Lengths Available	Insertion Loss (Typ.)	0.038	0.059	0.086	0.126	dB/ft	
			0.13	0.2	0.29	0.42	dB/m	
PE3W13755-12	12 In	Insertion Loss (Typ.)	0.19	0.21	0.24	0.28	dB	0.143
PE3W13755-24	24 In	Insertion Loss (Typ.)	0.23	0.27	0.33	0.41	dB	0.179
PE3W13755-36	36 In	Insertion Loss (Typ.)	0.27	0.33	0.41	0.53	dB	0.215
PE3W13755-60	60 In	Insertion Loss (Typ.)	0.34	0.45	0.58	0.78	dB	0.287
PE3W13755-72	72 In	Insertion Loss (Typ.)	0.38	0.51	0.67	0.91	dB	0.323

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:	0.1 dB
Loss due to Connector 2:	0.05 dB
Base Weight:	0.143 pounds
Additional Weight per Inch:	0.003 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.143 lbs [64.86 g]

Cable

Cable Type	RG59
Impedance	75 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Copper Braid
Jacket Material	PVC (NC), Black
Jacket Diameter	0.242 in [6.15 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	N Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

Environmental Specifications

Operating Range Temperature -25 to +70 deg C

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

Plotted and Other Data

Notes:

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PE3W13755

Typical Performance Data

How to Order

Part Number Configuration:

PE3W13755

- xx

uu

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

Example: PE3W13755-12 = 12 inches long cable
PE3W13755-100cm = 100 cm long cable

50 Ohm TNC Male to 75 Ohm N Male Cable Using 75 Ohm RG59 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.

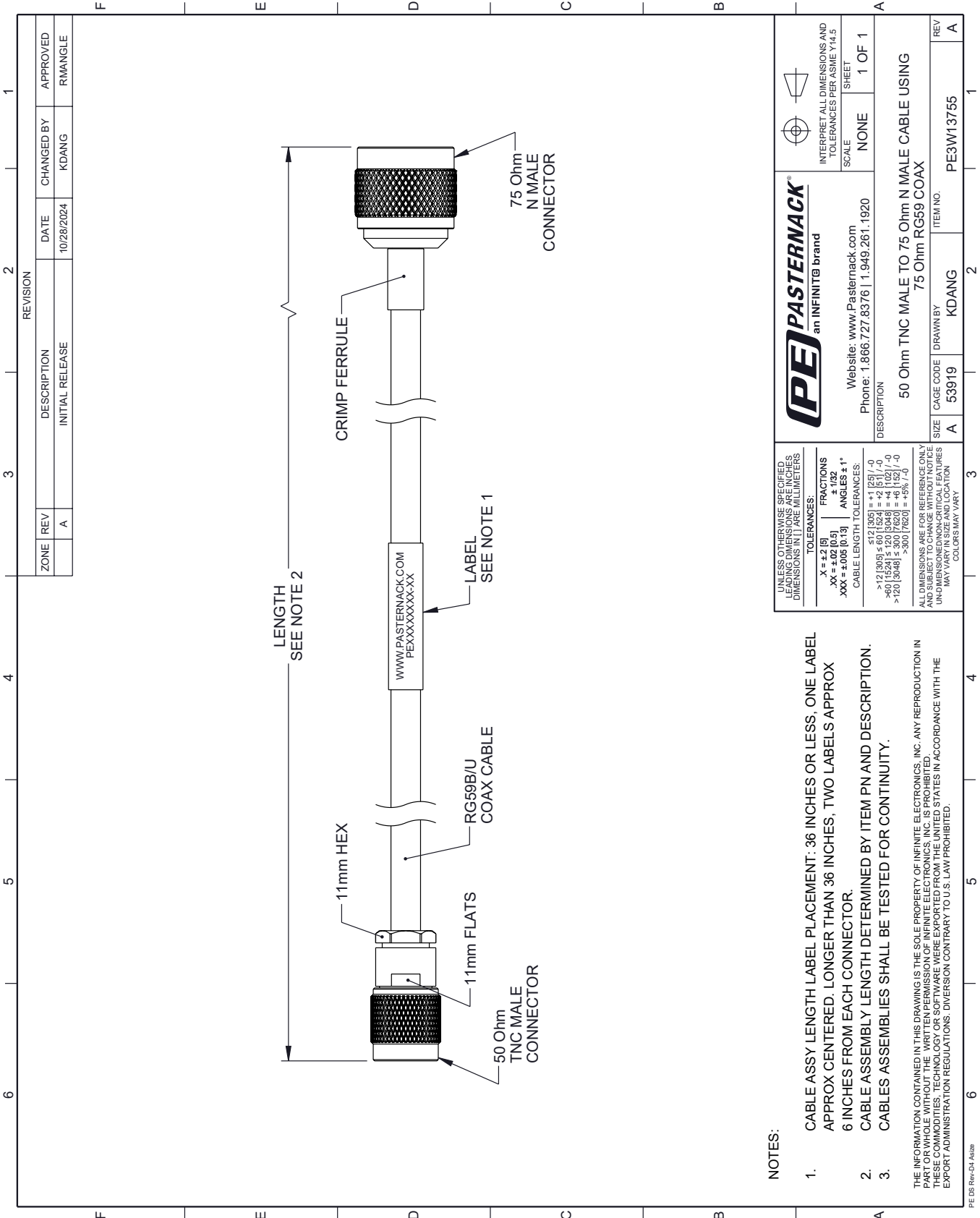
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm TNC Male to 75 Ohm N Male Cable Using 75 Ohm RG59 Coax PE3W13755](https://www.pasternack.com/50-ohm-tnc-male-to-75-ohm-n-male-cable-using-rg59-pe3w13755-p.aspx)

URL: <https://www.pasternack.com/50-ohm-tnc-male-to-75-ohm-n-male-cable-using-rg59-pe3w13755-p.aspx>

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

PE3W13755 CAD Drawing

50 Ohm TNC Male to 75 Ohm N Male Cable Using 75 Ohm RG59 Coax



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	10/28/2024	KDANG	RMANGLE
DESCRIPTION				
INITIAL RELEASE				

PE PASTERNAK
an INFINITE brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION: 50 Ohm TNC MALE TO 75 Ohm N MALE CABLE USING 75 Ohm RG59 COAX

ITEM NO. PE3W13755

SIZE A CAGE CODE 53919 DRAWN BY KDANG

REV 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] ±.12 [3.05] = +1 [25] / -0
 >12 [305] ±.60 [152.4] = +2 [51] / -0
 >40 [1024] ±.120 [3048] = +4 [102] / -0
 >120 [3048] ±.300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED. DIMENSIONS 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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