

3.5mm Male to TNC Female Cable Using PE-SR402FLJ Coax



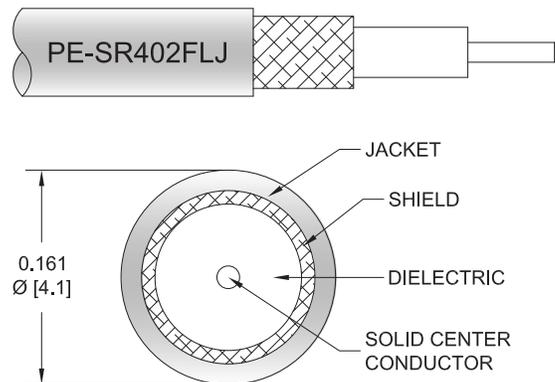
PE3W17829

Configuration

- Connector 1: 3.5mm Male
- Connector 2: TNC Female
- Cable Type: PE-SR402FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W17829 3.5mm male to TNC female cable using PE-SR402FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack 3.5mm to TNC cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE3W17829 3.5mm male to TNC female cable assembly operates to 6 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.23 [27]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	500	1000	2500	6000	
PE3W17829	Custom Lengths Available	Insertion Loss (Typ.)	0.082	0.125	0.129	0.196	dB/ft	
			0.27	0.42	0.43	0.65	dB/m	
PE3W17829-6	6 Inch	Insertion Loss (Typ.)	0.17	0.21	0.23	0.3	dB	0.107
PE3W17829-9	9 Inch	Insertion Loss (Typ.)	0.19	0.24	0.26	0.35	dB	0.115
PE3W17829-12	12 Inch	Insertion Loss (Typ.)	0.22	0.27	0.3	0.4	dB	0.123
PE3W17829-18	18 Inch	Insertion Loss (Typ.)	0.26	0.33	0.36	0.5	dB	0.14
PE3W17829-24	24 Inch	Insertion Loss (Typ.)	0.3	0.39	0.43	0.59	dB	0.156

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:	0.04*sqrt(F(GHz)) dB
Base Weight:	0.123 pounds
Additional Weight per Inch:	0.00267 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.123 lbs [55.79 g]

Cable

Cable Type	PE-SR402FLJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Tinned Copper Braid
Jacket Material	FEP, Black
Jacket Diameter	0.161 in [4.09 mm]
One Time Minimum Bend Radius	0.315 in [8 mm]
Repeated Minimum Bend Radius	1.575 in [40.01 mm]

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Connectors

Description	Connector 1	Connector 2
Type	3.5mm Male	TNC Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	
Dielectric Type	PCTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Brass, Nickel
Body Plating Specification	SAE-AMS-2700	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W17829

Typical Performance Data

How to Order

Part Number Configuration:

PE3W17829

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W17829-12 = 12 inches long cable
PE3W17829-100cm = 100 cm long cable

3.5mm Male to TNC Female Cable Using PE-SR402FLJ 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.

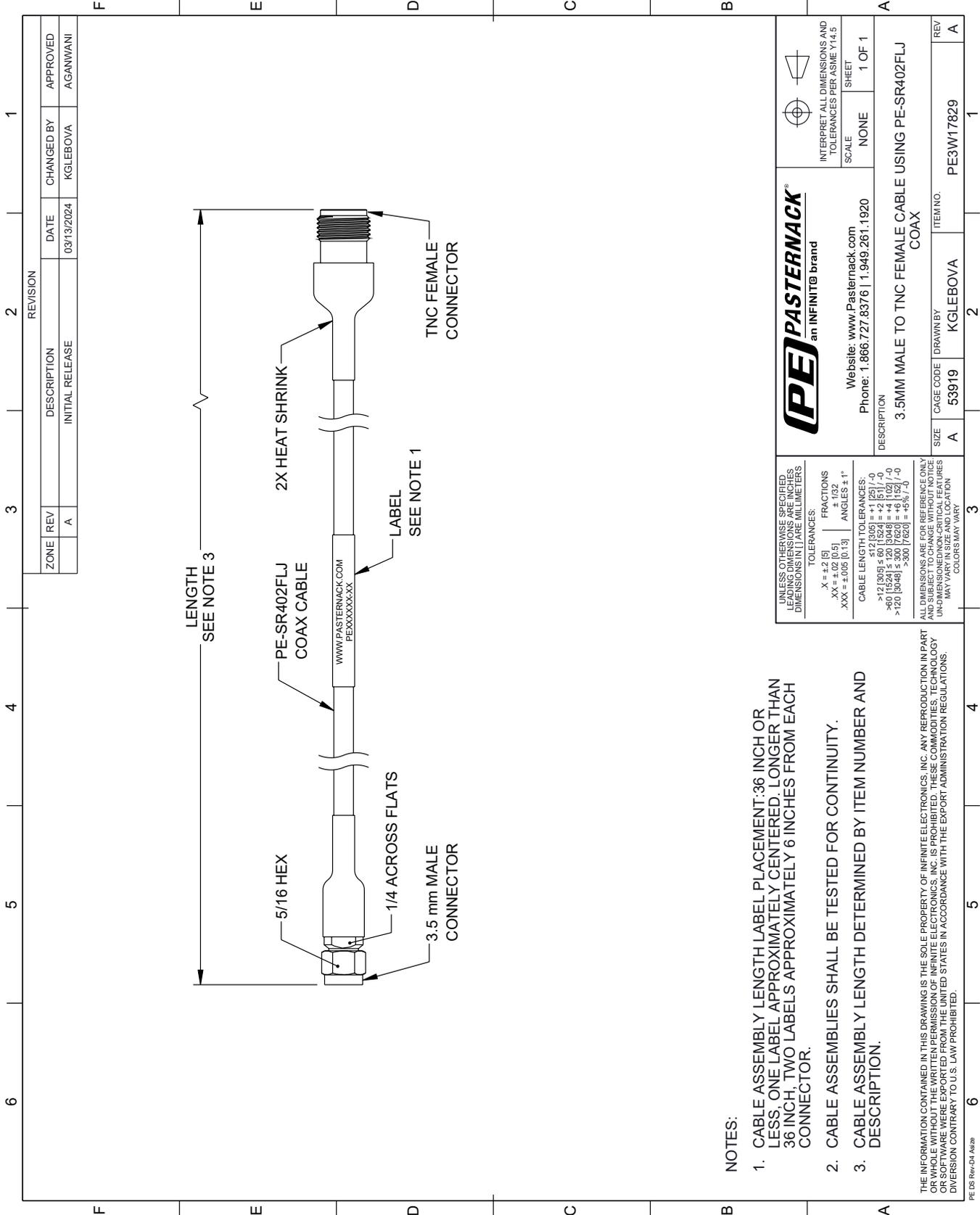
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male to TNC Female Cable Using PE-SR402FLJ Coax PE3W17829](#)

URL: <https://www.pasternack.com/3.5mm-male-to-tnc-female-cable-using-pe-sr402flj-pe3w17829-p.aspx>

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PE3W17829 CAD Drawing

3.5mm Male to TNC Female Cable Using PE-SR402FLJ Coax



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	A	INITIAL RELEASE	KGLEBOVA	AGANWANI

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: 3.5MM MALE TO TNC FEMALE CABLE USING PE-SR402FLJ COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3W17829

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

TOLERANCES:

X = ±.2 [5] FRACTIONS ±.132
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:

>12 [305] ≤ 60 [1524] = +.2 [5] / -0
 >60 [1524] ≤ 120 [3048] = +.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +.6 [152] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS. DIMENSIONS AND LOCATIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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PE DS Rev-04 Add2

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