



75 Ohm F Male to 75 Ohm F Male Cable Using 75 Ohm RG59 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W03585/HS

Configuration

- Connector 1: F Male
- Connector 2: F Male
- Cable Type: RG59

Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03585/HS 75 ohm type F male to 75 ohm type F 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 type F to type F cable assembly has a male to male gender configuration with 75 ohm flexible RG59 coax. The PE3W03585/HS type F male to type F 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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		20.4 [66.93]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Typ.)	0.038	0.058	0.085	0.128		dB/ft
	0.12	0.19	0.28	0.42		

Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm F Male to 75 Ohm F Male Cable Using 75 Ohm RG59 Coax with HeatShrink PE3W03585/HS](#)



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Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

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]

Connectors

Description	Connector 1	Connector 2
Type	F Male	F Male
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Brass, Nickel	Brass, Nickel
Contact Plating Specification	100 µin minimum	100 µin minimum
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
Hex Size	7/16 inch	7/16 inch
Torque	12 in-lbs [1.36 Nm]	12 in-lbs [1.36 Nm]

Environmental Specifications

Temperature

Operating Range -25 to +70 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:

PE3W03585/HS

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W03585/HS-12 = 12 inches long cable
PE3W03585/HS-100cm = 100 cm long cable

75 Ohm F Male to 75 Ohm F Male Cable Using 75 Ohm RG59 Coax with HeatShrink 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.

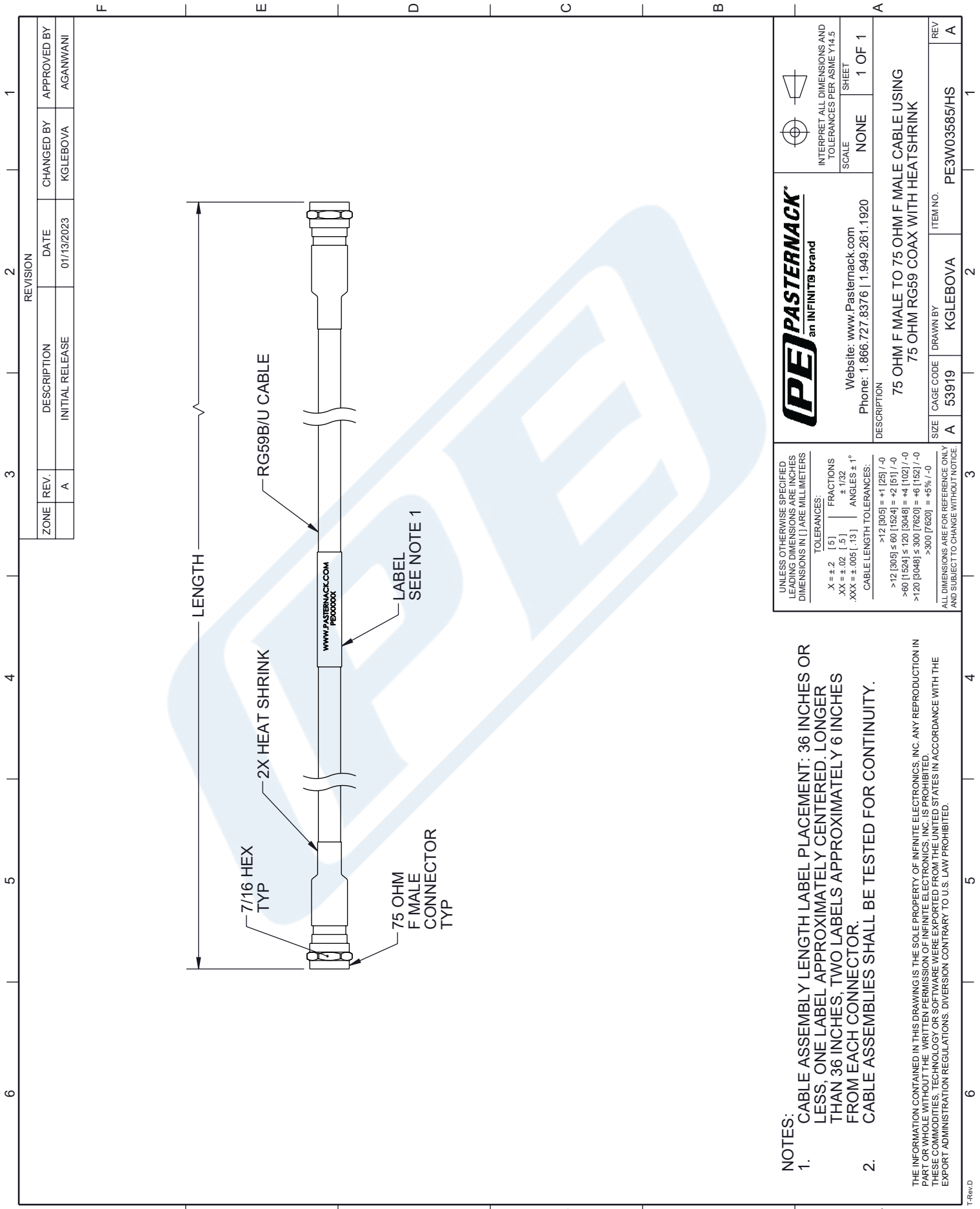
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URL: <https://www.pasternack.com/75-ohm-f-male-to-75-ohm-f-male-cable-using-rg59-with-heatshrink-pe3w03585-hs-p.aspx>

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.

PE3W03585/HS CAD Drawing

75 Ohm F Male to 75 Ohm F Male Cable Using 75 Ohm RG59 Coax with HeatShrink



ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
A		INITIAL RELEASE	01/13/2023	KGLEBOVA	AGANWANI

REVISION	
1	

<p>PASTERNAK an INFINITT® brand</p> <p>Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920</p>	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>
	<p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
<p>DESCRIPTION: 75 OHM F MALE TO 75 OHM F MALE CABLE USING 75 OHM RG59 COAX WITH HEATSHRINK</p>	
<p>SIZE: A</p> <p>CAGE CODE: 53919</p> <p>DRAWN BY: KGLEBOVA</p> <p>ITEM NO.: PE3W03585/HS</p>	<p>REV: A</p>

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

TOLERANCES:
 X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [5] ANGLES ± 1°
 .XXX = ±.005 [13]

CABLE LENGTH TOLERANCES:
 >12 [305] = +1 [25] / -0
 >60 [1524] ≤ 60 [1524] = -2 [51] / -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.

NOTES:
 1. 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.
 2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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