



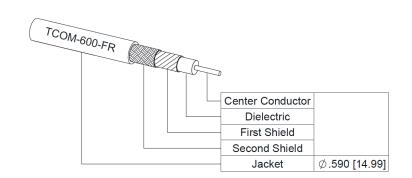
PE3C10422

Configuration

Connector 1: 4.3-10 Male
Connector 2: 4.3-10 Male
Cable Type: TCOM-600-FR
Coax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- · 87% Phase Velocity
- · Double Shielded
- · PE Jacket
- · 500 Mating Cycles



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C10422 4.3-10 male to 4.3-10 male cable using TCOM-600-FR 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 4.3-10 to 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-600-FR coax. The PE3C10422 4.3-10 male to 4.3-10 male cable assembly operates to 6 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 100 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		87		%
RF Shielding	100			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.52 [4.99]		Ohms/1000ft [Ohms/Km]





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3C10422	Custom Lengths	Insertion Loss (Typ.)	0.013	0.019	0.028	0.046	0.077	dB/ft	
FL3C10422	Available		0.05	0.07	0.1	0.16	0.26	dB/m	
PE3C10422-24	24 inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.3	0.36	dB	0.368
PE3C10422-36	36 inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.44	dB	0.522
PE3C10422-48	48 inch	Insertion Loss (Typ.)	0.26	0.28	0.32	0.39	0.51	dB	0.676
PE3C10422-120	120 inch	Insertion Loss (Typ.)	0.33	0.39	0.48	0.66	0.97	dB	1.6
PE3C10422-180	180 inch	Insertion Loss (Typ.)	0.4	0.49	0.62	0.89	1.36	dB	2.37

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:

0.1 dB

Base Weight:

0.214 pounds

Additional Weight per Inch:

0.01283 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.214 lbs [97.07 g]

Cable

Cable TypeTCOM-600-FRImpedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type PE (F)
Number of Shields 2
Shield Layer 1 Silver Plated Copper Braid

Shield Layer 2 Tinned Copper Braid
Jacket Material PE, Black

Jacket Diameter0.59 in [14.99 mm]One Time Minimum Bend Radius1.5 in [38.1 mm]

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

6 in [152.4 mm]

Bending Moment

2.75 lbs-ft [3.73 N-m]

Flat Plate Crush

60 lbs/in [1.07 Kg/mm]

Tensile Strength

350 lbs [158.76 Kg]





PE3C10422

Connectors

Description	Connector 1	Connector 2
Туре	4.3-10 Male	4.3-10 Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





PE3C10422

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10422 - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: PE3C10422-12 = 12 inches long cable

PE3C10422-100cm = 100 cm long cable

Fire Rated 4.3-10 Male to 4.3-10 Male Low Loss Cable Using TCOM-600-FR Coax With Times Microwave Components 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: Fire Rated 4.3-10 Male to 4.3-10 Male Low Loss Cable Using TCOM-600-FR Coax With Times Microwave Components PE3C10422

URL: https://www.pasternack.com/fire-rated-4.3-10-male-to-4.3-10-male-low-loss-cable-using-tcom-600-fr-pe3c10422-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 impliment 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.

PE3C10422 CAD Drawing

Fire Rated 4.3-10 Male to 4.3-10 Male Low Loss Cable Using TCOM-600-FR Coax With Times Microwave Components

