



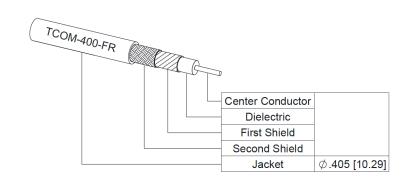
PE3C10411

Configuration

Connector 1: 4.3-10 Male
Connector 2: 4.3-10 Male
Cable Type: TCOM-400-FR
Coax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- · 85% Phase Velocity
- Double Shielded
- · PE Jacket
- · 500 Mating Cycles



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C10411 4.3-10 male to 4.3-10 male cable using TCOM-400-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-400-FR coax. The PE3C10411 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		85	%	
RF Shielding	100			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.47 [4.82]		Ohms/1000ft [Ohms/Km]





PE3C10411

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	
PE3C10411	Custom Lengths	Insertion Loss (Typ.)	0.021	0.03	0.044	0.072	0.117	dB/ft	
1 23010411	Available		0.07	0.1	0.15	0.24	0.39	dB/m	
PE3C10411-12	12 inch	Insertion Loss (Typ.)	0.23	0.23	0.25	0.28	0.32	dB	0.272
PE3C10411-24	24 inch	Insertion Loss (Typ.)	0.25	0.26	0.29	0.35	0.44	dB	0.352
PE3C10411-36	36 inch	Insertion Loss (Typ.)	0.27	0.29	0.34	0.42	0.56	dB	0.432
PE3C10411-48	48 inch	Insertion Loss (Typ.)	0.29	0.32	0.38	0.49	0.67	dB	0.512
PE3C10411-60	60 inch	Insertion Loss (Typ.)	0.31	0.35	0.42	0.56	0.79	dB	0.592

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: 0.272 pounds

Additional Weight per Inch: 0.00666 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.272 lbs [123.38 g]

Cable

Cable Type TCOM-400-FR Impedance 50 Ohms Inner Conductor Type Solid

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 Diameter 0.405 in [10.29 mm]

 One Time Minimum Bend Radius
 1 in [25.4 mm]

 Repeated Minimum Bend Radius
 4 in [101.6 mm]

 Bending Moment
 0.5 lbs-ft [0.68 N-m]

 Flat Plate Crush
 40 lbs/in [0.71 Kg/mm]

 Tensile Strength
 160 lbs [72.57 Kg]





PE3C10411

Connectors

Connector 1	Connector 2		
4.3-10 Male	4.3-10 Male		
50 Ohms	50 Ohms		
Straight	Straight		
500	500		
Brass, Silver	Brass, Silver		
PTFE	PTFE		
Brass, Tri-Metal	Brass, Tri-Metal		
Brass, Tri-Metal	Brass, Tri-Metal		
	4.3-10 Male 50 Ohms Straight 500 Brass, Silver PTFE 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:





PE3C10411

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10411 - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: PE3C10411-12 = 12 inches long cable

PE3C10411-100cm = 100 cm long cable

Fire Rated 4.3-10 Male to 4.3-10 Male Low Loss Cable Using TCOM-400-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-400-FR Coax With Times Microwave Components PE3C10411

URL: https://www.pasternack.com/fire-rated-4.3-10-male-to-4.3-10-male-low-loss-cable-using-tcom-400-fr-pe3c10411-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.

PE3C10411 CAD Drawing

Fire Rated 4.3-10 Male to 4.3-10 Male Low Loss Cable Using TCOM-400-FR Coax With Times Microwave Components

