

PE3C10403

Configuration

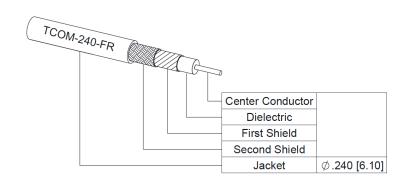
· Connector 1: TNC Male

· Connector 2: TNC Male Right Angle

Cable Type: TCOM-240-FRCoax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- · Shielding Effectivity > 100 dB
- · 84% Phase Velocity
- Double Shielded
- PE Jacket
- · 500 Mating Cycles



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C10403 TNC male to TNC male right angle cable using TCOM-240-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 TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-240-FR coax. The PE3C10403 TNC male to TNC male cable assembly operates to 6 GHz. The right angle TNC interface on the TCOM-240-FR cable allows for easier connections in tight spaces. 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		84		%
RF Shielding	100			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		2.06 [6.76]		Ohms/1000ft [Ohms/Km]





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3C10403	Custom Lengths	Insertion Loss (Typ.)	0.037	0.052	0.076	0.123	0.197	dB/ft	
	Available		0.13	0.18	0.25	0.41	0.65	dB/m	
PE3C10403-12	12 inch	Insertion Loss (Typ.)	0.59	0.61	0.63	0.68	0.75	dB	0.162
PE3C10403-24	24 inch	Insertion Loss (Typ.)	0.63	0.66	0.71	0.8	0.95	dB	0.207
PE3C10403-36	36 inch	Insertion Loss (Typ.)	0.67	0.71	0.78	0.92	1.15	dB	0.252
PE3C10403-48	48 inch	Insertion Loss (Typ.)	0.7	0.76	0.86	1.05	1.34	dB	0.297
PE3C10403-60	60 inch	Insertion Loss (Typ.)	0.74	0.81	0.93	1.17	1.54	dB	0.342

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 1:0.3 dBLoss due to Connector 2:0.25 dBBase Weight:0.162 poundsAdditional Weight per Inch:0.00375 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.162 lbs [73.48 g]

Cable

Cable Type TCOM-240-FR
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper
Dialogatic Type PF (F)

Inner Conductor Material and Plating Copper
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 Diameter0.24 in [6.1 mm]One Time Minimum Bend Radius0.75 in [19.05 mm]Repeated Minimum Bend Radius2.5 in [63.5 mm]Bending Moment0.25 lbs-ft [0.34 N-m]

Flat Plate Crush 20 lbs/in [0.36 Kg/mm]
Tensile Strength 80 lbs [36.29 Kg]





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Connectors

Description	Connector 1	Connector 2
Туре	TNC Male	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μinch	50 μin
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μinch	80 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 μinch	80 μin
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





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Typical Performance Data

How to Order

Part Number Configuration:

PE3C10403 - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: PE3C10403-12 = 12 inches long cable

PE3C10403-100cm = 100 cm long cable

Fire Rated TNC Male to TNC Male Right Angle Low Loss Cable Using TCOM-240-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 TNC Male to TNC Male Right Angle Low Loss Cable Using TCOM-240-FR Coax With Times Microwave Components PE3C10403

URL: https://www.pasternack.com/fire-rated-tnc-male-to-tnc-male-low-loss-cable-using-tcom-240-fr-pe3c10403-p.aspx

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PE3C10403 CAD Drawing

Fire Rated TNC Male to TNC Male Right Angle Low Loss Cable Using TCOM-240-FR Coax With Times Microwave Components

