

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

PE3C10400

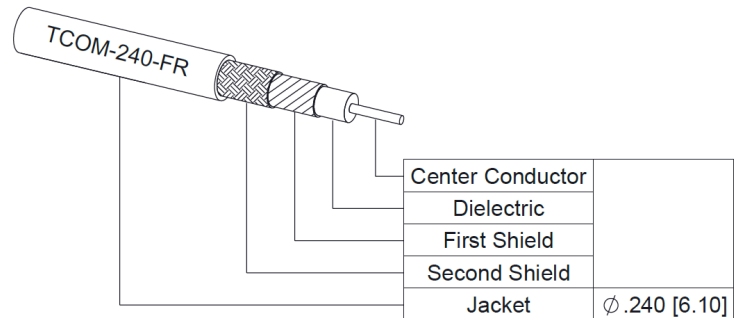


Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Female Bulkhead
- Cable Type: TCOM-240-FR
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10400 type N male right angle to type N female bulkhead 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 type N to type N cable assembly has a male to female gender configuration with 50 ohm flexible TCOM-240-FR coax. The PE3C10400 type N male to type N female cable assembly operates to 6 GHz. The right angle type N interface on the TCOM-240-FR cable allows for easier connections in tight spaces. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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]

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



PE3C10400

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3C10400	Custom Lengths Available	Insertion Loss (Typ.)	0.037	0.052	0.076	0.123	0.197	dB/ft	
			0.13	0.18	0.25	0.41	0.65	dB/m	
PE3C10400-12	12 inch	Insertion Loss (Typ.)	0.56	0.58	0.6	0.65	0.72	dB	0.237
PE3C10400-24	24 inch	Insertion Loss (Typ.)	0.6	0.63	0.68	0.77	0.92	dB	0.282
PE3C10400-36	36 inch	Insertion Loss (Typ.)	0.64	0.68	0.75	0.89	1.12	dB	0.327
PE3C10400-48	48 inch	Insertion Loss (Typ.)	0.67	0.73	0.83	1.02	1.31	dB	0.372
PE3C10400-60	60 inch	Insertion Loss (Typ.)	0.71	0.78	0.9	1.14	1.51	dB	0.417

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:	0.24 dB
Loss due to Connector 2:	0.28 dB
Base Weight:	0.237 pounds
Additional Weight per Inch:	0.00375 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.237 lbs [107.5 g]

Cable

Cable Type	TCOM-240-FR
Impedance	50 Ohms
Inner Conductor Type	Solid
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 Diameter	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

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



PE3C10400

Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Female Bulkhead
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	50 µinches
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Tri-Metal
Outer Conductor Plating Specification		80 µinches
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	80 µin minimum	
Torque	9 in-lbs 1.02 Nm	

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

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



PE3C10400

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10400

- xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C10400-12 = 12 inches long cable
PE3C10400-100cm = 100 cm long cable

Fire Rated N Male Right Angle to N Female Bulkhead 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 N Male Right Angle to N Female Bulkhead Low Loss Cable Using TCOM-240-FR Coax With Times Microwave Components PE3C10400](#)

URL: <https://www.pasternack.com/fire-rated-n-male-right-angle-to-n-female-bulkhead-low-loss-cable-using-tcom-240-fr-pe3c10400-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 implement 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.

PE3C10400 CAD Drawing

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

