

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



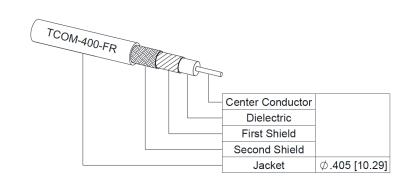
PE3C10418

Configuration

Connector 1: TNC Male
Connector 2: TNC 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 PE3C10418 TNC male to TNC 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 TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-400-FR coax. The PE3C10418 TNC male to TNC 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]



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



PE3C10418

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number Len	Learnite	Description	F1	F2	F3	F4	F5	Units	AA7-1-1-1-(11)
	Length	Frequency	250	500	1000	2500	6000	MHz	Weight (lbs)
PE3C10418	Custom Lengths	Insertion Loss (Typ.)	0.021	0.03	0.044	0.072	0.117	dB/ft	
1 13010418	Available		0.07	0.1	0.15	0.24	0.39	dB/m	
PE3C10418-12	12 inch	Insertion Loss (Typ.)	0.53	0.53	0.55	0.58	0.62	dB	0.262
PE3C10418-24	24 inch	Insertion Loss (Typ.)	0.55	0.56	0.59	0.65	0.74	dB	0.342
PE3C10418-36	36 inch	Insertion Loss (Typ.)	0.57	0.59	0.64	0.72	0.86	dB	0.422
PE3C10418-48	48 inch	Insertion Loss (Typ.)	0.59	0.62	0.68	0.79	0.97	dB	0.502
PE3C10418-60	60 inch	Insertion Loss (Typ.)	0.61	0.65	0.72	0.86	1.09	dB	0.582

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: 0.25 dB 0.25 dB Loss due to Connector 2: 0.262 pounds Base Weight: Additional Weight per Inch: 0.00666 pounds

Mechanical Specifications

Cable Assembly

Jacket Diameter

Width/Diameter 0.5 in [12.7 mm] Weight 0.262 lbs [118.84 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** PE, Black Jacket Material

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] 40 lbs/in [0.71 Kg/mm] Flat Plate Crush Tensile Strength 160 lbs [72.57 Kg]



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



PE3C10418

Connectors

Description	Connector 1	Connector 2
Туре	TNC Male	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μinch	50 μinch
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μinch	80 μinch
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 µinch	80 μinch

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



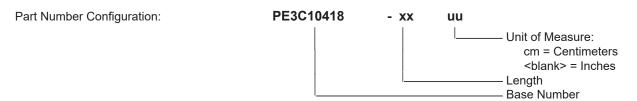
Fire Rated TNC Male to TNC Male Low Loss Cable Using TCOM-400-FR Coax With Times Microwave Components



PE3C10418

Typical Performance Data

How to Order



Example: PE3C10418-12 = 12 inches long cable

PE3C10418-100cm = 100 cm long cable

Fire Rated TNC Male to TNC 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 TNC Male to TNC Male Low Loss Cable Using TCOM-400-FR Coax With Times Microwave Components PE3C10418

URL: https://www.pasternack.com/fire-rated-tnc-male-to-tnc-male-low-loss-cable-using-tcom-400-fr-pe3c10418-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.

PE3C10418 CAD Drawing

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

