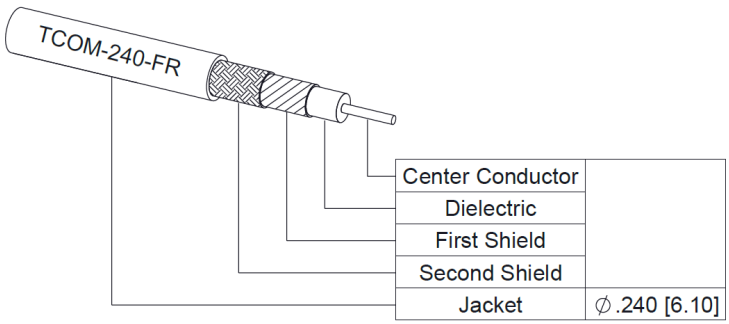
Fire Rated 7/16 DIN Male to N Male Low PIM Cable Using TCOM-240-FR Coax With Times Microwave Components

PE3C10348

Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: N Male
- 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
- 500 Mating Cycles

Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

Description

Pasternack's PE3C10348 7/16 DIN male to type N male 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 7/16 DIN to type N cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-240-FR coax. The PE3C10348 7/16 DIN male to type N male cable assembly operates to 6 GHz. Our low PIM design also offers excellent passive intermodulation performance. 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]
Passive Intermodulation IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz		-155		dBc
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

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3C10348	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	
PE3C10348-12	12 inch	Insertion Loss (Typ.)	0.53	0.55	0.57	0.62	0.69	dB	0.265
PE3C10348-24	24 inch	Insertion Loss (Typ.)	0.57	0.6	0.65	0.74	0.89	dB	0.31
PE3C10348-36	36 inch	Insertion Loss (Typ.)	0.61	0.65	0.72	0.86	1.09	dB	0.355
PE3C10348-48	48 inch	Insertion Loss (Typ.)	0.64	0.7	0.8	0.99	1.28	dB	0.4
PE3C10348-60	60 inch	Insertion Loss (Typ.)	0.68	0.75	0.87	1.11	1.48	dB	0.445

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:	0.245	dB
Loss due to Connector 2:	0.245	dB
Base Weight:	0.265	pounds
Additional Weight per Inch:	0.00375	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.265 lbs [120.2 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]

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Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	N 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:

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C10348 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C10348 — Base Number

Example: PE3C10348-12 = 12 inches long cable
PE3C10348-100cm = 100 cm long cable

Fire Rated 7/16 DIN Male to N Male Low PIM 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 7/16 DIN Male to N Male Low PIM Cable Using TCOM-240-FR Coax With Times Microwave Components PE3C10348

URL: https://www.pasternack.com/fire-rated-7-16-din-male-to-n-male-low-pim-cable-using-tcom-240-fr-pe3c10348-p.aspx

PE3C10348 CAD Drawing

Fire Rated 7/16 DIN Male to N Male Low PIM Cable Using TCOM-240-FR Coax With Times Microwave Components