



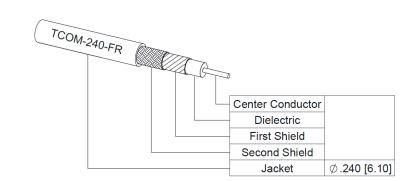
PE3C10344

Configuration

Connector 1: 7/16 DIN Male
Connector 2: 7/16 DIN 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 PE3C10344 7/16 DIN male to 7/16 DIN 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 7/16 DIN cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-240-FR coax. The PE3C10344 7/16 DIN male to 7/16 DIN 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		-155		dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
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]





PE3C10344

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
DC Resistance Outer Conductor		2.06 [6.76]		Ohms/1000ft [Ohms/Km]
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	
PE3C10344	Custom Lengths	Insertion Loss (Ivn)	0.037	0.052	0.076	0.123	0.197	dB/ft	
PE3C10344	Available		0.13	0.18	0.25	0.41	0.65	dB/m	
PE3C10344-12	12 inch	Insertion Loss (Typ.)	0.53	0.55	0.57	0.62	0.69	dB	0.305
PE3C10344-24	24 inch	Insertion Loss (Typ.)	0.57	0.6	0.65	0.74	0.89	dB	0.35
PE3C10344-36	36 inch	Insertion Loss (Typ.)	0.61	0.65	0.72	0.86	1.09	dB	0.395
PE3C10344-48	48 inch	Insertion Loss (Typ.)	0.64	0.7	0.8	0.99	1.28	dB	0.44
PE3C10344-60	60 inch	Insertion Loss (Typ.)	0.68	0.75	0.87	1.11	1.48	dB	0.485

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: 0.305 pounds

Additional Weight per Inch: 0.00375 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.305 lbs [138.35 g]

Cable

Cable Type TCOM-240-FR Impedance 50 Ohms

Inner Conductor Type Solid
Inner Conductor Material and Plating Copper
Dialogatic Type

Professional Copper

Profe

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 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]





PE3C10344

Connectors

Description	Connector 1	Connector 2
Туре	7/16 DIN Male	7/16 DIN 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:





PE3C10344

Typical Performance Data

How to Order



Example: PE3C10344-12 = 12 inches long cable

PE3C10344-100cm = 100 cm long cable

Fire Rated 7/16 DIN Male to 7/16 DIN 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 7/16 DIN Male Low PIM Cable Using TCOM-240-FR Coax With Times Microwave Components PE3C10344

URL: https://www.pasternack.com/fire-rated-7-16-din-male-to-7-16-din-male-low-pim-cable-using-tcom-240-fr-pe3c10344-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.

PE3C10344 CAD Drawing

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

