

Low PIM Flexible TCOM-400-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket



TCOM-400-FR-BULK

Configuration

- Low PIM, Fire Rated Flexible Cable
- 3 Shield(s)

Features

- Lightweight and Extremely Flexible
- PIM < -155 dBc
- RF Shielding >100 dB
- Low Loss Dielectric 85% VoP
- Fire Rated Jacket
- Non-Halogen (Non-Toxic)

Applications

- Wireless Base Station Interconnect
- Distributed Antenna Systems (DAS)
- Antenna Jumpers
- UL/NEC & CSA rating of 'CMR' and 'FT4'
- Low Smoke Requirements
- Small Cell
- Indoor-Riser CMR

Description

The TCOM-400-FR-BULK part number from Pasternack is a TCOM-400 low PIM coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a foam polyethylene dielectric. Our TCOM-400 coax cable is constructed with a 0.405-inch jacket made of polyethylene. This coaxial cable has a dielectric withstanding voltage of 2500 Vdc. This black low PIM coax cable has a nominal capacitance of 23.90 pF/Ft.

This TCOM-400 flexible RF cable has a shield count of 3. Our coax cable from Pasternack has a maximum frequency of 10 GHz. The maximum passive intermodulation of this low PIM cable is -155 dBc. Additional specifications for this TCOM-400-FR-BULK RF coaxial cable are on our downloadable PDF datasheet above. This low PIM RF cable has a one-time minimum bend radius of 1.0 inches and a repeat minimum bend radius of 4.0 inches. Our flexible 50 Ohm coax cable has a peak power rating of 16000 watts.

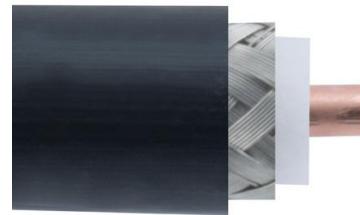
Our TCOM-400 coax cable can operate at temperatures ranging from -40 to 85 deg C. The black-colored coax RF cable has a typical insertion loss/attenuation of 1.6, 2.9, 4.2, 6.4, 10.5, and 15.7 dB/100ft at frequencies of 150 MHz, 450 MHz, 900 MHz, 2000 MHz, 5000 MHz and 10000 MHz respectively. Our TCOM-400-FR-BULK flexible RF cable has a solid copper center conductor. This coaxial cable features a dual shield of tinned copper braid over the silver plated copper braid.

Pasternack TCOM-400 low PIM coax cables are part of our RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using TCOM-400, or other coax can be built and shipped the same business day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Velocity of Propagation		85		%
Time Delay		1.2 [3.94]		ns/ft [ns/m]
Shielding Effectiveness	100			dB
Passive Intermodulation			-155	dBc

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			1.39	Ohms/1000ft
Outer Conductor DC Resistance			1.47	Ohms/1000ft
Nominal Capacitance	23.9 [78.41]			pF/ft [pF/m]
Nominal Inductance	0.06 [0.2]			uH/ft [uH/m]
Input Power (Peak)			16	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.15	0.45	0.9	2	5	GHz
Attenuation, Typ	1.6	2.9	4.2	6.4	10.5	dB/100ft
	5.25	9.51	13.78	21	34.45	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	10					GHz
Attenuation, Typ	15.7					dB/100ft
	51.51					dB/100m

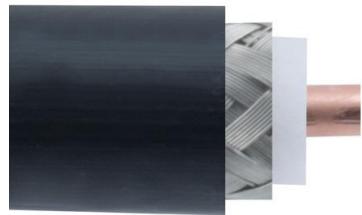
Mechanical Specifications

Diameter	0.405 in [10.29 mm]
Weight	0.08 lbs/ft [0.12 kg/m]
Min. Bend Radius (Installation)	1 in [25.4 mm]
Min. Bend Radius (Repeated)	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Tensile Strength	160 lbs [72.57 kg]
Flat Plate Crush	40 lbs/in [0.71 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum, 1 Strand	0.108 in [2.74 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.285 in [7.24 mm]
First Shield	Silver Plated Copper Braid	0.295 in [7.49 mm]
Second Shield	Tinned Copper Braid	0.33 in [8.38 mm]
Jacket	FRPE, Black	0.405 in [10.29 mm]

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Environmental Specifications

Temperature

Operating Range
Installation Range
Storage Range

-40 to +85 deg C
-40 to +85 deg C
-70 to +85 deg C

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

Plotted and Other Data

Notes:

Low PIM Flexible TCOM-400-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket 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: [Low PIM Flexible TCOM-400-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket TCOM-400-FR-BULK](#)

URL: <https://www.pasternack.com/low-pim-flexible-tcom400-pe-jacket-silver-plated-copper-braid-over-tinned-copper-braid-outer-conductor-double-shielded-tcom-400-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.

TCOM-400-FR-BULK CAD Drawing

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