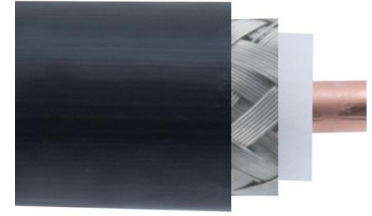


Low PIM Flexible TCOM-400-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket



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.

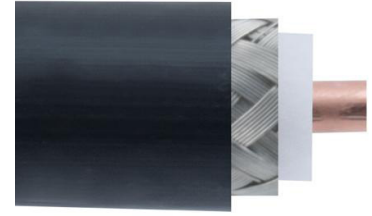
Our TCOM-400 coax cable can operate at temperatures ranging from -40 to 85 deg C. The black-colored coax RF cable has a typical insertion loss/attenuation of 1.6, 2.9, 4.2, 6.4, 10.5, and 15.7 dB/100ft at frequencies of 150 MHz, 450 MHz, 900 MHz, 2000 MHz, 5000 MHz and 10000 MHz respectively. Our TCOM-400-FR-BULK 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 |

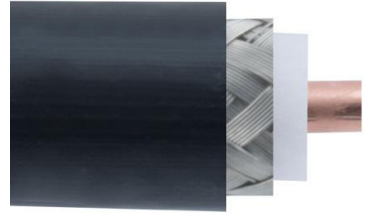
Mechanical Specifications

| | |
|---------------------------------|-------------------------|
| 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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TCOM-400-FR-BULK

Environmental Specifications

Temperature

| | |
|--------------------|------------------|
| Operating Range | -40 to +85 deg C |
| Installation Range | -40 to +85 deg C |
| Storage Range | -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
Low PIM Flexible TCOM-400-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket

