

TCOM-195-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated



TCOM-195-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 80% 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

TCOM-195 low PIM coax cable from Fairview Microwave is only one of many radio frequency coaxial cable types specifically stocked to be ready for same business day shipment. Fairview Microwave's TCOM-195-FR-BULK coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This flexible 50 Ohm coax cable is constructed with a polyethylene jacket of 0.195 inch diameter. The maximum passive intermodulation of this low PIM cable is -155 dBc.

Fairview Microwave's TCOM-195-FR-BULK flexible coax cable with a polyethylene jacket is rated for a 18 GHz maximum operating frequency. This 50 Ohm flexible coax cable is built with a shield count of 3. Our low PIM RF coaxial cable has a solid conductor made of copper. The black-colored coax RF cable has a typical insertion loss/attenuation of 4.5, 8, 11, 17, 27, 39, and 54 dB/100ft at frequencies of 150 MHz, 450 MHz, 900 MHz, 2000 MHz, 5000 MHz, 10000 MHz, and 18000 MHz respectively.

The TCOM-195 coax cable with foam polyethylene dielectric can operate at temperatures ranging from -40 to +85 deg C. Additional specifications for this TCOM-195-FR-BULK RF coaxial cable are on our downloadable PDF datasheet above. Our low PIM coaxial cable has a dielectric withstanding voltage of 1000 Vdc. This low PIM RF cable has a one time minimum bend radius of 0.5 inches and a repeat minimum bend radius of 2 inches. Our flexible 50 Ohm coax cable has a peak power rating of 2500 watts.

TCOM-195 low PIM RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This TCOM-195 coax cable is ready to buy and can be shipped worldwide. Fairview Microwave also maintains a wide selection of other radio frequency and coaxial cable types that ship the same business day from our warehouse in the United States, as with the rest of our other RF/microwave and millimeter wave components.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Velocity of Propagation		80		%
Time Delay		1.27 [4.17]		ns/ft [ns/m]
Passive Intermodulation			-155	dBc

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Inner Conductor DC Resistance			7.16	Ohms/1000ft
Outer Conductor DC Resistance			3.42	Ohms/1000ft
Nominal Capacitance		25.4 [83.33]		pF/ft [pF/m]
Nominal Inductance		0.064 [0.21]		uH/ft [uH/m]
Input Power (Peak)			2.5	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.15	0.45	0.9	2	5	GHz
Attenuation, Typ	4.5	8	11	17	27	dB/100ft
	14.76	26.25	36.09	55.77	88.58	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	10	18				GHz
Attenuation, Typ	39	54				dB/100ft
	127.95	177.17				dB/100m

Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.035 lbs/ft [0.05 kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.11 in [2.79 mm]
First Shield	Silver Plated Copper Braid	0.12 in [3.05 mm]
Second Shield	Tinned Copper Braid over Aluminum Tape	0.148 in [3.76 mm]
Jacket	FRPE, Black	0.195 in [4.95 mm]

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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:

TCOM-195-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

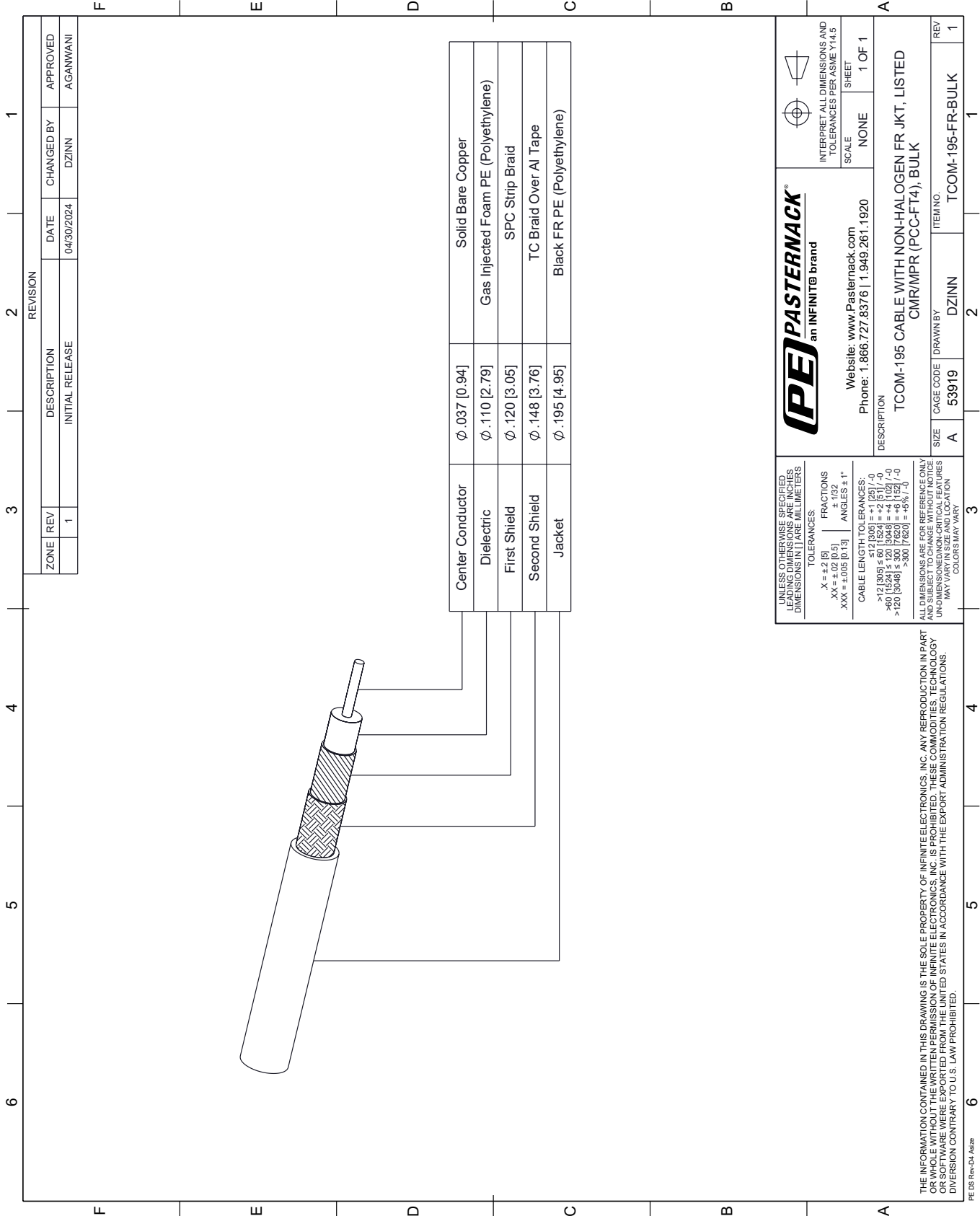
For additional information on this product, please click the following link: [TCOM-195-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated TCOM-195-FR-BULK](#)

URL: <https://www.fairviewmicrowave.com/invalid-alias-low-pim-flexible-coax-cable-frpe-jacket-tcom-195-fr-bulk-p.aspx>

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TCOM-195-FR-BULK CAD Drawing

TCOM-195-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated



ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
		1	INITIAL RELEASE	04/30/2024	DZINN	AGANWANI

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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PE DS Rev-04 Add2

DESCRIPTION	TCOM-195 CABLE WITH NON-HALOGEN FR JKT, LISTED CMR/MPR (PCC-FT4), BULK	
SIZE	CAGE CODE	ITEM NO.
A	53919	TCOM-195-FR-BULK
DRAWN BY	DZINN	REV
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