

TCOM-240 Low PIM Flexible Coax Cable Black PE Jacket

Times Microwave Systems Coax Cable Specification

TCOM-240 low PIM coax cable from Fairview Microwave is only one of many radio frequency coaxial cable types specifically stocked to be ready for quick shipment. Fairview Microwave's TCOM-240 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 0.24-inch diameter. The maximum passive intermodulation of this low PIM cable is -155 dBc.

Fairview Microwave's TCOM-240 flexible coax cable with a polyethylene jacket is rated for a 10 GHz maximum operating frequency. This 50 Ohm flexible coax cable is built with a shield count of 2 and RF shielding of 100 dB. Our low PIM RF coaxial cable has a solid conductor of copper. This black-colored coax RF cable has a typical insertion loss/maximum attenuation of 26.2 dB/100ft at a frequency of 10 GHz.

The TCOM-240 coax cable with foam PE dielectric can operate at temperatures ranging from -40 to 85 degrees C. Additional specifications for this TCOM-240 double-shielded RF coaxial cable are on our downloadable PDF datasheet above. This coaxial cable features a dual shield of tinned copper braid over the silver plated copper braid. Our low PIM coaxial cable has a dielectric withstanding voltage of 1500 Vdc.

TCOM-240 low PIM RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This TCOM-240 coax cable is ready to buy and can be shipped worldwide. Fairview Microwave also maintains a wide selection of other radio frequency coaxial cable types that ship the same day from our Allen, TX warehouse in the United States, as with the rest of our other RF/microwave and millimeter wave components.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Velocity of Propagation		84		%
Time Delay		1.21 [3.97]		ns/ft [ns/m]
Shielding Effectiveness	100			dB
Passive Intermodulation			-155	dBc
DWV (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Inner Conductor DC Resist.			3.2	Ohms/1000ft
Outer Conductor DC Resist.			2.06	Ohms/1000ft
Nominal Capacitance		24.2 [79.4]		pF/ft [pF/m]
Nominal Inductance		0.06 [0.2]		uH/ft [uH/m]
Input Power (Peak)			5.6	kWatts



Configuration:

- Low PIM Flexible Cable
- 2 Shield(s)

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Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.15	0.22	0.45	0.9	1.5	GHz
Attenuation, Typ	2.9	3.5	5	7.2	9.4	dB/100ft
	9.51	11.48	16.4	23.62	30.84	dB/100m
Power In (CW), Max	700	570	400	280	210	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.8	2	2.5	5.8	10	GHz
Attenuation, Typ	10.3	10.9	12.3	19.4	26.2	dB/100ft
	33.79	35.76	40.35	63.65	85.96	dB/100m
Power In (CW), Max	190	180	160	100	70	Watts

Mechanical Specifications

Diameter	0.24 in [6.1 mm]
Weight	0.03 lbs/ft [0.04 kg/m]
Min. Bend Radius (Installation)	0.75 in [19.05 mm]
Min. Bend Radius (Repeated)	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Tensile Strength	80 lbs [36.29 kg]
Flat Plate Crush	20 lbs/in [0.36 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strands	0.056 in [1.42 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.15 in [3.81 mm]
First Shield	Silver Plated Copper Braid	0.16 in [4.06 mm]
Second Shield	Tinned Copper Braid	0.188 in [4.78 mm]
Jacket	PE, Black	0.24 in [6.1 mm]

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-240 Low PIM Flexible Coax Cable Black PE Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [TCOM-240 Low PIM Flexible Coax Cable Black PE Jacket TCOM-240](#)

URL: <https://www.fairviewmicrowave.com/tcom240-low-pim-flexible-coax-cable-pe-jacket-tcom-240-p.aspx>

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