

TCOM-600 Low PIM Flexible Coax Cable Black PE Jacket

Times Microwave Systems Coax Cable Specification

TCOM-600-BULK 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-600-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 0.59-inch diameter. The maximum passive intermodulation of this low PIM cable is -155 dBc.

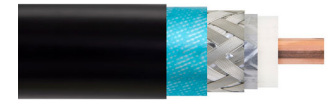
Fairview Microwave’s TCOM-600-BULK flexible coax cable with a polyethylene jacket is rated for a 10 GHz maximum operating frequency. This 50 Ohm flexible coax cable is built with a shield count of 2 and RF shielding of 100 dB. Our low PIM RF coaxial cable has a solid conductor of copper clad aluminum. This black-colored coax RF cable has a typical insertion loss/maximum attenuation of 10.6 dB/100ft at a frequency of 10 GHz.

The TCOM-600-BULK coax cable with foam PE dielectric can operate at temperatures ranging from -40 to 85 degrees C. Additional specifications for this TCOM-600-BULK 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 4000 Vdc.

TCOM-600-BULK low PIM RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This TCOM-600-BULK 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 | | 87 | | % |
| Time Delay | | 1.17 [3.84] | | ns/ft [ns/m] |
| Shielding Effectiveness | 100 | | | dB |
| Passive Intermodulation | | | -155 | dBc |
| DWV (DC) | | | 4,000 | Vdc |
| Jacket Spark | | | 8,000 | Vrms |
| Inner Conductor DC Resist. | | | 0.53 | Ohms/1000ft |
| Outer Conductor DC Resist. | | | 1.52 | Ohms/1000ft |
| Nominal Capacitance | | 23.4 | | pF/ft |
| | | [76.77] | | [pF/m] |
| Nominal Inductance | | 0.058 | | uH/ft |
| | | [0.19] | | [uH/m] |
| Input Power (Peak) | | | 40 | kWatts |



Configuration:

- Low PIM Flexible Cable
- 2 Shield(s)

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

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 | 1 3.28 | 1.2 3.94 | 1.8 5.91 | 2.6 8.53 | 3.5 11.48 | dB/100ft dB/100m |
| Power In (CW), Max | 2,280 | 1,860 | 1,280 | 880 | 660 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|--------------------|-------------|--------------|--------------|--------------|---------------|---------------------|
| Frequency | 1.8 | 2 | 2.5 | 5.8 | 10 | GHz |
| Attenuation, Typ | 3.9 12.8 | 4.1 13.45 | 4.6 15.09 | 7.6 24.93 | 10.6 34.78 | dB/100ft dB/100m |
| Power In (CW), Max | 600 | 560 | 500 | 300 | 220 | Watts |

Mechanical Specifications

| | |
|---------------------------------|-------------------------|
| Diameter | 0.59 in [14.99 mm] |
| Weight | 0.137 lbs/ft [0.2 kg/m] |
| Min. Bend Radius (Installation) | 1.5 in [38.1 mm] |
| Min. Bend Radius (Repeated) | 6 in [152.4 mm] |
| Bending Moment | 2.75 lbs-ft [3.73 N-m] |
| Tensile Strength | 350 lbs [158.76 kg] |
| Flat Plate Crush | 60 lbs/in [1.07 kg/mm] |

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|---------------------------------|---------------------|
| Inner Conductor | Copper Clad Aluminum, 1 Strands | 0.176 in [4.47 mm] |
| Conductor Type | Solid | |
| Dielectric | PE (F) | 0.455 in [11.56 mm] |
| First Shield | Silver Plated Copper Braid | 0.465 in [11.81 mm] |
| Second Shield | Tinned Copper Braid | 0.5 in [12.7 mm] |
| Jacket | PE, Black | 0.59 in [14.99 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:

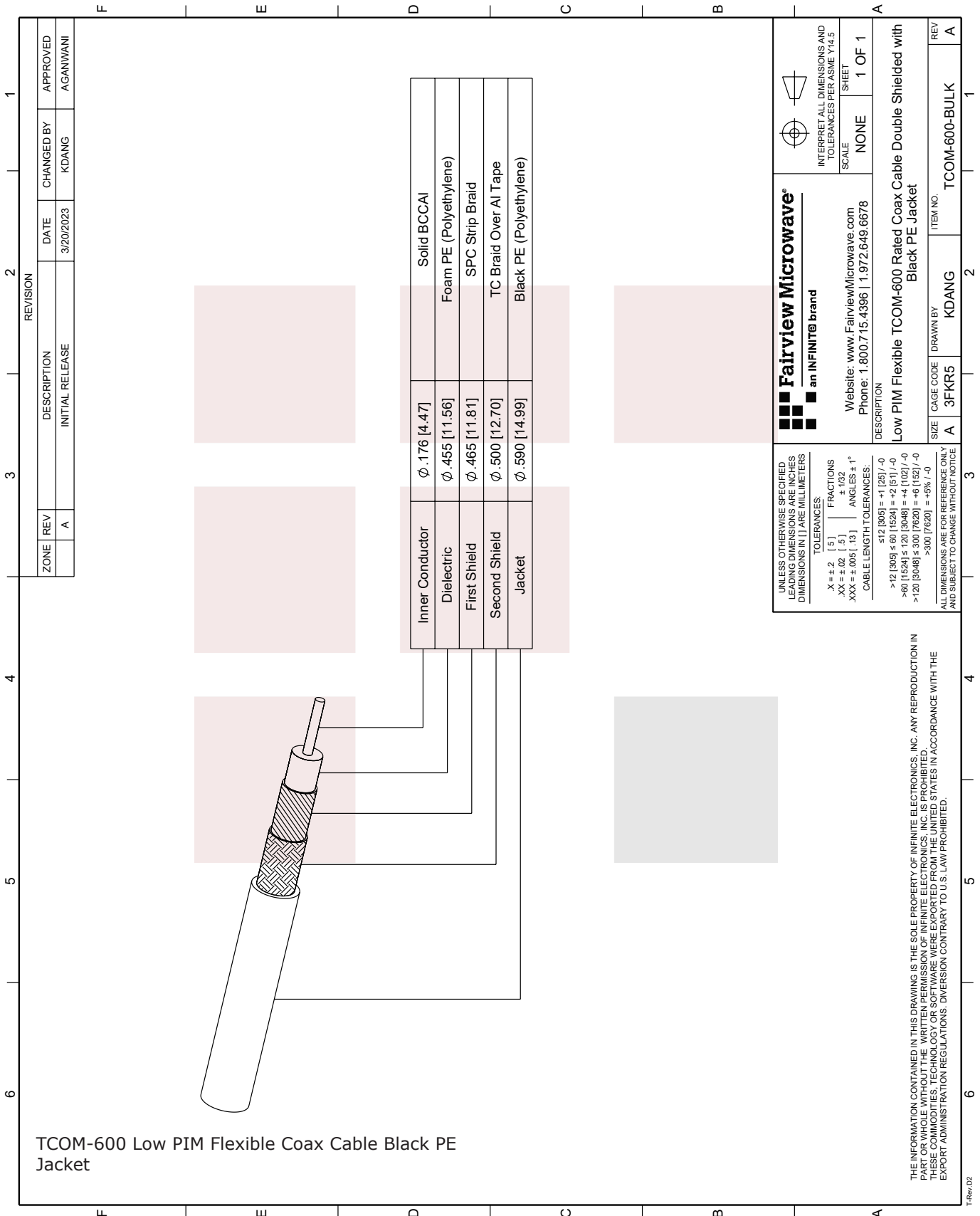
TCOM-600 Low PIM Flexible Coax Cable Black PE Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [TCOM-600 Low PIM Flexible Coax Cable Black PE Jacket TCOM-600-BULK](#)

URL: <https://www.fairviewmicrowave.com/tcom600bulk-low-pim-flexible-coax-cable-pe-jacket-tcom-600-bulk-p.aspx>

The information contained in 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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





TCOM-600 Low PIM Flexible Coax Cable Black PE Jacket

| | |
|---|---|
| <p>Fairview Microwave® an INFINITE brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p> | <p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> |
| | <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p> |
| <p>DESCRIPTION: Low PIM Flexible TCOM-600 Rated Coax Cable Double Shielded with Black PE Jacket</p> | |
| <p>SIZE: A</p> <p>CAGE CODE: 3FKR5</p> <p>DRAWN BY: KDANG</p> <p>ITEM NO.: TCOM-600-BULK</p> | <p>REV: A</p> |

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

TOLERANCES:
 .X = ± .2 [.5] FRACTIONS
 .XX = ± .02 [.5] ± .132 ANGLES ± 1°
 .XXX = ± .005 [.13]

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] = ± 1 [25] / -0
 > 12 [305] ≤ 60 [1524] = ± 2 [51] / -0
 > 60 [1524] ≤ 120 [3048] = ± 4 [102] / -0
 > 120 [3048] ≤ 300 [7620] = ± 6 [152] / -0
 > 300 [7620] = ± 8% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.