7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF

TCP-400-716MC-LP

Configuration

- 7/16 DIN Male Connector
- IEC-61169-4
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF, LMR-LW400
- Low PIM Design

Features

- Operating Frequency of 6 GHz Max.
- Good VSWR of 1.3:1
- PIM levels better than -160 dBc
- Silver Plated Brass Contact
- 200 µin minimum contact plating

Applications

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

Description

7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF and LMR-LW400 Cable, part number TCP-400-716MC-LP, from Fairview Microwave is in-stock and ships same day. This 7/16 DIN male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The 7/16 DIN male connector also has low passive intermodulation (PIM) of -160 dBc.

Fairview's 7/16 DIN male connector TCP-400-716MC-LP datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Insertion Loss			0.245	dB
Passive Intermodulation			-160	dBc
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.758 in [44.65 mm]
Width	1.26 in [32 mm]
Height	1.26 in [32 mm]
Weight	0.14 lbs [63.5 g]
Mating Cycles	500 Cycles
Mating Torque	44.25 in-lbs [[5.00 Nm]]

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7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF

TCP-400-716MC-LP

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 80 µin minimum
Retaining Ring	Brass	Silver 200 µin minimum
Gasket	Silicone	
Crimp Sleeve	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range	-40 to +125 deg C
Shock	MIL-STD-202G, Meth.213, Con.I
Vibration	MIL-STD-202G, Meth.204, Cond.B
Thermal Shock	MIL-STD-202G, Meth.107, Cond.B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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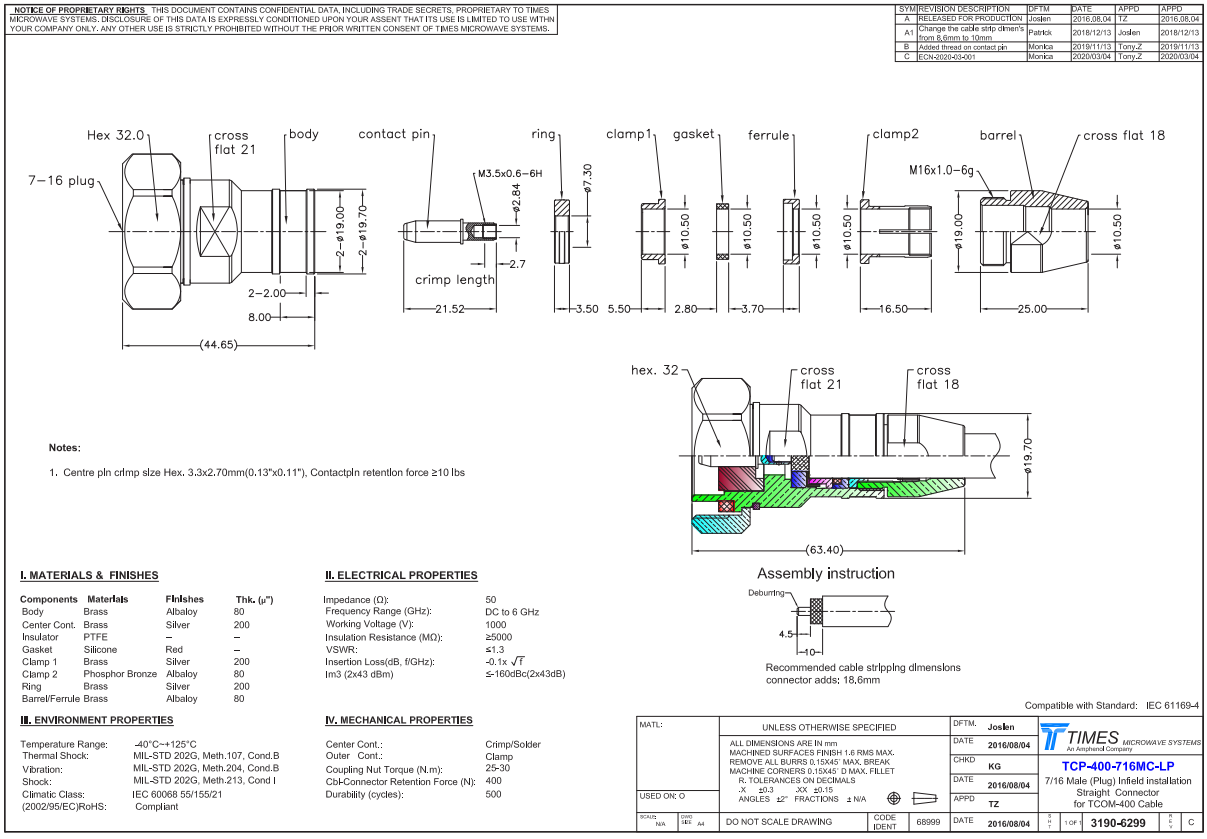
7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF

TCP-400-716MC-LP

Assembly Instruction



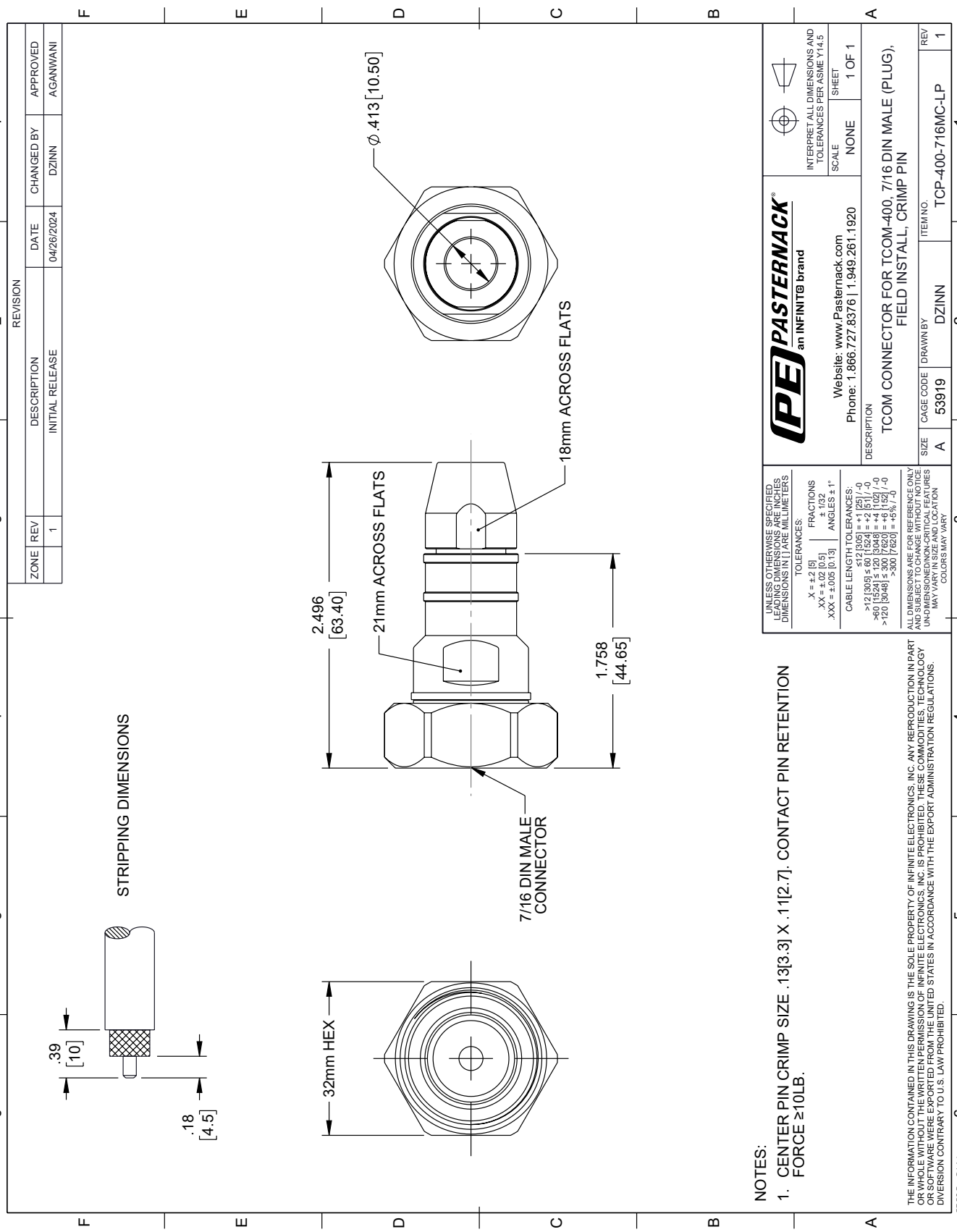
7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF TCP-400-716MC-LP

URL: https://www.fairviewmicrowave.com/7-16-din-male-tcom-400-tcom-400-fr-lmr-400-lmr-400-db-lmr-400-fr-lmr-400-uf-lmr-lw400-connector-tcp-400-716mc-lp-p.aspx

TCP-400-716MC-LP CAD Drawing

7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF



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TC-400-SM-X
DATA SHEET

SMA Male (Plug) Connector For LMR-400 Cable, Crimp/Solder

Times Microwave Systems Connector Specification

SMA male connector with crimp/solder attachment for LMR-400, part number TC-400-SM-X, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.22:1.

Fairview's SMA male connector TC-400-SM-X datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-400 Interface Type
- Crimp/Solder Attachment

Features:

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.22:1
- Gold Plated Brass Contact
- 50µ" Minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.22:1	
Operating Voltage (AC)			335	Vrms
DWV (DC)			500	Vdc
Inner Cond. DC Resistance			3	mOhms
Outer Cond. DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	1.23 in [31.24 mm]
Width/Dia.	0.5 in [12.70 mm]
Height	0.5 in [12.7 mm]
Weight	0.051 lbs [23.13 g]
Mating Cycles	500 Cycles
Mating Torque	7 to 10 in-lbs [0.79 to 1.13 Nm]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50µ" Minimum
Insulation	Teflon	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range	-55 to +125 deg C

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sales@fairviewmicrowave.com

Humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Cond. I
Vibration	MIL-STD-202, Method 204, Cond. D

Compliance Certifications (see product page for current document)

Plotted and Other Data

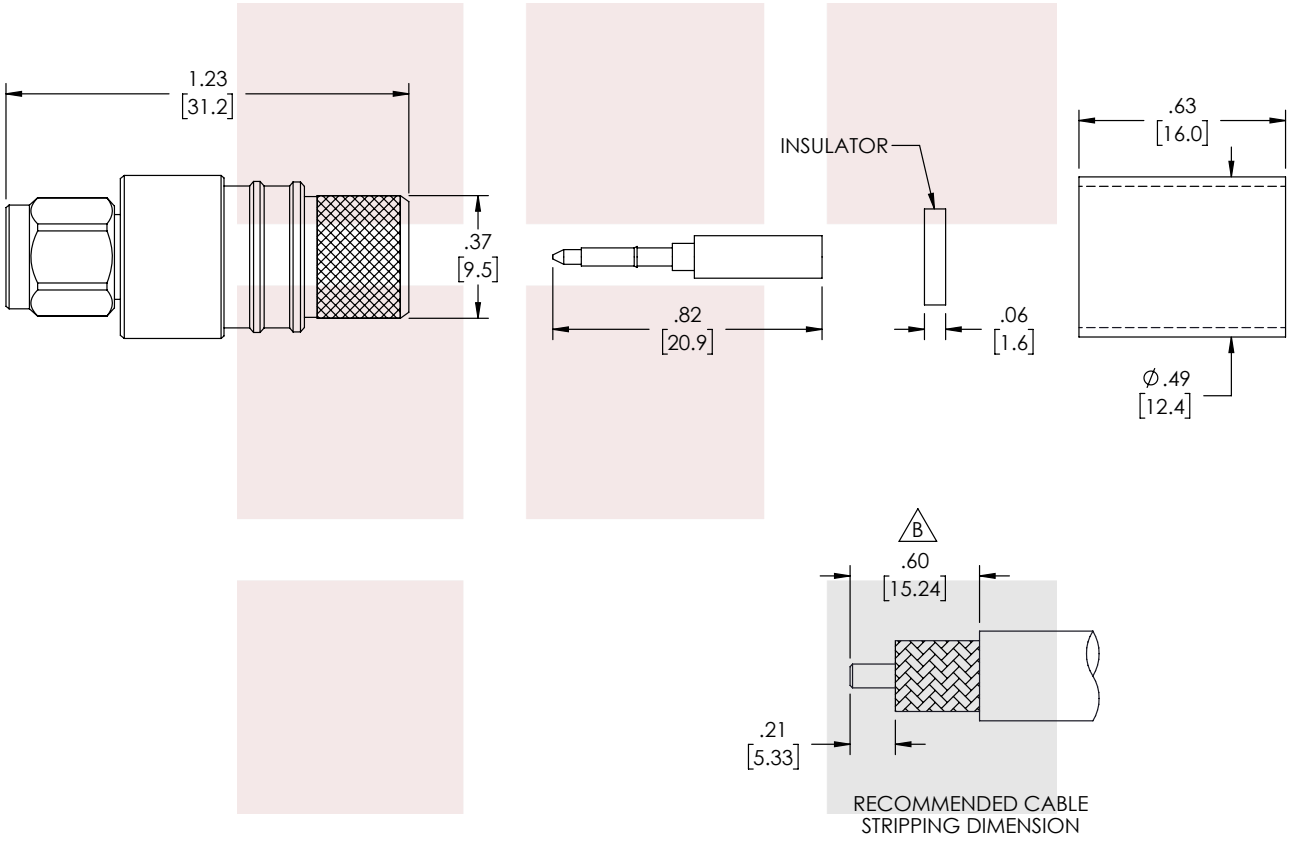
Notes:

SMA Male (Plug) Connector For LMR-400 Cable, Crimp/Solder 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: SMA Male (Plug) Connector For LMR-400 Cable, Crimp/Solder TC-400-SM-X

URL: https://www.fairviewmicrowave.com/sma-male-lmr-400-connector-tc-400-sm-x-p.aspx

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR TC-400-SM-X 20220513; UPDATE STRIPPING DIM	6/2/22	SRAUTUS



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TITLE

SMA Male (Plug) Connector For LMR-400 Cable, Crimp/Solder

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

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION

SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	HBAKKE	TC-400-SM-X-FM	B

T-Rev.D

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TIMES MICROWAVE SYSTEMS **TCOM-400**
DATA SHEET

TCOM-400 Low PIM Flexible Coax Cable Black PE Jacket

Times Microwave Systems Coax Cable Specification

TCOM-400 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-400 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 0.405-inch diameter. The maximum passive intermodulation of this low PIM cable is -155 dBc.

Fairview Microwave's TCOM-400 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 15.7 dB/100ft at a frequency of 10 GHz.

The TCOM-400 coax cable with foam PE dielectric can operate at temperatures ranging from -40 to 85 degrees C. Additional specifications for this TCOM-400 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 2500 Vdc.

TCOM-400 low PIM RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This TCOM-400 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.

Configuration:

- Low PIM Flexible Cable
- 2 Shield(s)

Electrical Specifications

Description	Min	Typ	Max	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
DWV (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resist.			1.39	Ohms/1000ft
Outer Conductor DC Resist.			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

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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	1.6 5.25	2 6.56	2.9 9.51	4.2 13.78	5.4 17.72	dB/100ft dB/100m
Power In (CW), Max	1,380	1,130	780	540	410	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.8	2	2.5	5.8	10	GHz
Attenuation, Typ	6 19.69	6.4 21	7.2 23.62	11.5 37.73	15.7 51.51	dB/100ft dB/100m
Power In (CW), Max	370	350	310	190	140	Watts

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 Strands	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	PE, Black	0.405 in [10.29 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-400 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.

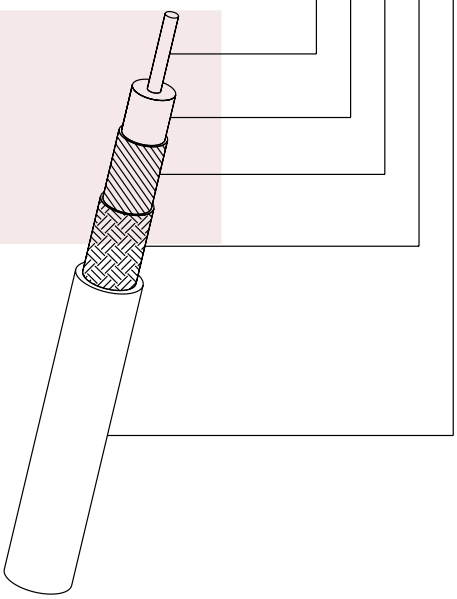
Click the following link to obtain additional part information: TCOM-400 Low PIM Flexible Coax Cable Black PE Jacket TCOM-400

URL: https://www.fairviewmicrowave.com/tcom400-low-pim-flexible-coax-cable-pe-jacket-tcom-400-p.aspx

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	3/20/2023	KDANG	AGANWANI

REVISION

Inner Conductor	Ø.108 [2.74]	Solid BCCAl
Dielectric	Ø.285 [7.24]	Foam PE (Polyethylene)
First Shield	Ø.295 [7.49]	SPC Strip Braid
Second Shield	Ø.330 [8.38]	TC Braid Over Al Tape
Jacket	Ø.405 [10.29]	Black PE (Polyethylene)



TCOM-400 Low PIM Flexible Coax Cable Black PE Jacket

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

TOLERANCES:

X = ± .2 [5] | FRACTIONS ± 1/32"
XX = ± .02 [.5] | 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] = +5% / -0

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

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE | SHEET: 1 OF 1

DESCRIPTION
Low PIM Flexible TCOM-400 Rated Coax Cable Double Shielded with Black PE Jacket

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	KDANG	TCOM-400	A

T-Rev.D2