

7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for .600 inch, LMR-600, LMR-600-DB

RA 7/16 DIN male connector with crimp/solder attachment for .600 inch, LMR-600 and LMR-600-DB, part number FMCN1835, from Fairview Microwave is in-stock and ships same day. This 7/16 DIN male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.15:1. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA 7/16 DIN male connector FMCN1835 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	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.15:1	
Insertion Loss			0.05	dB
DWV (AC)			4,000	Vrms

Mechanical Specifications

Size	
Length	1.54 in [39.12 mm]
Width/Dia.	1.26 in [32.00 mm]
Height	1.96 in [49.78 mm]
Weight	0.282 lbs [127.91 g]
Mating Torque	221 in-lbs [24.97 Nm]

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 3μ m minimum
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal 3μ m minimum
Body	Brass	Tri-Metal 3μ m minimum
Coupling Nut	Brass	Tri-Metal 3μ m minimum

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C



Configuration:

- 7/16 DIN Male Connector
- 50 Ohms
- Right Angle Body Geometry
- .600 inch, LMR-600, LMR-600-DB Interface Type
- Crimp/Solder Attachment
- 1 1/4 in. Hex

Features:

- Operating Frequency of 3 GHz Max.
- Excellent VSWR of 1.15:1
- Silver Plated Brass Contact
- 3μ m minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

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Shock
Vibration

MIL-STD 202,Meth.213, Cond. I
MIL-STD 202,Meth.204, Cond. B

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

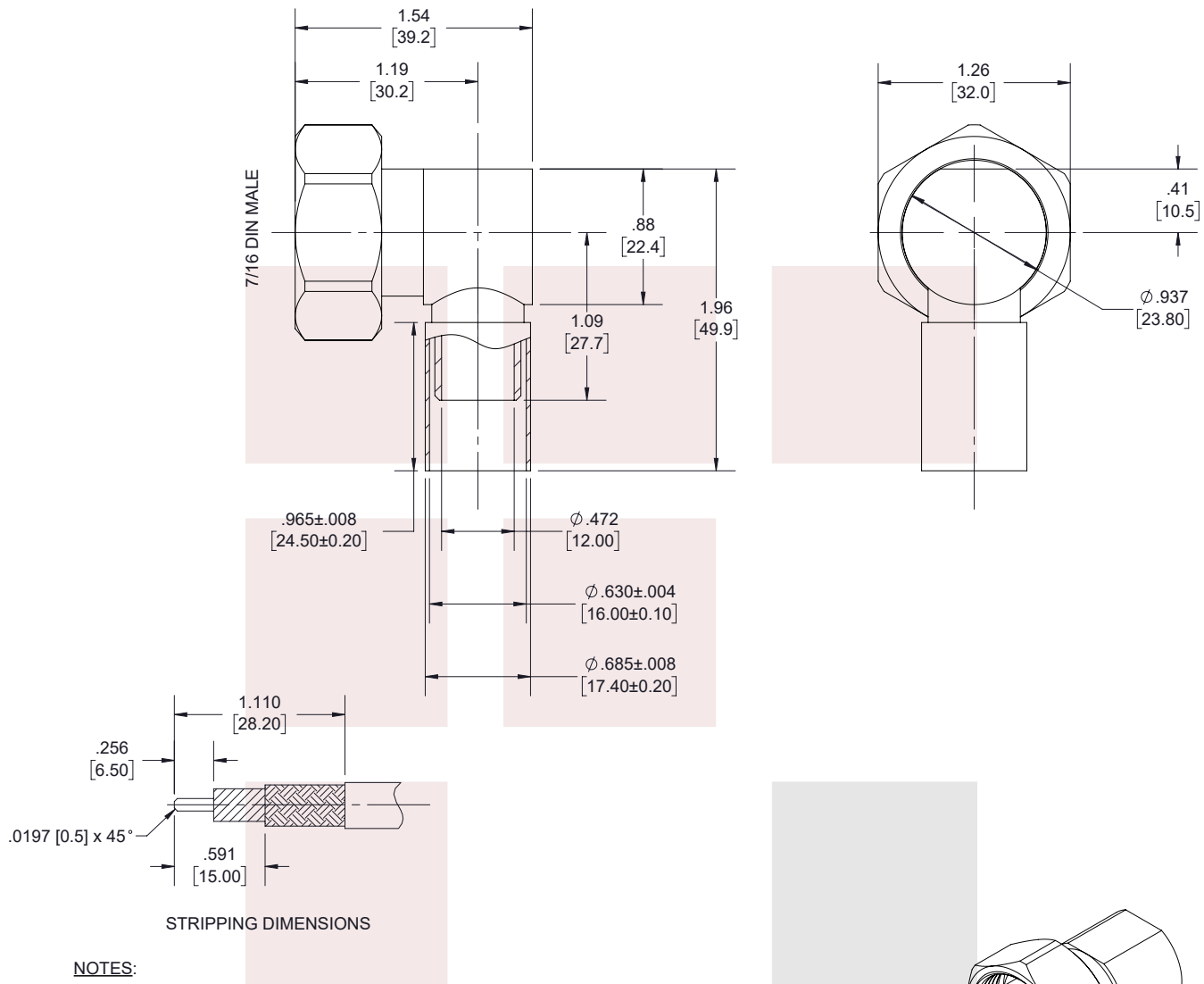
7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for .600 inch, LMR-600, LMR-600-DB from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for .600 inch, LMR-600, LMR-600-DB FMCN1835](#)

URL: <https://www.fairviewmicrowave.com/7-16-din-male-.600-lmr-600-lmr-600-db-connector-fmcn1835-p.aspx>

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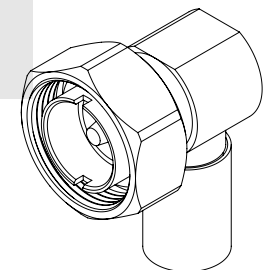
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/11/2022	A.GANWANI



NOTES:

- CABLE ATTACHMENT:
 - OUTER: CRIMP.
 - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
 - FERRULE: .610" [15.5] HEX. CRIMP TOOL.
 - CONTACT: SOLDER.

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TITLE

7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for .600 inch, LMR-600, LMR-600-DB

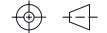
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.GLEBOVA	ITEM NO. FMCN1835	REV A
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T-Rev.D

7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF



TCP-600-716MC-LP

Configuration

- 7/16 DIN Male Connector
- IEC-61169-4
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF, LMR-LW600
- 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 μ m 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-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF and LMR-LW600 Cable, part number TCP-600-716MC-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-600-716MC-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	1.783 in [45.29 mm]
Width	1.26 in [32 mm]
Height	1.26 in [32 mm]
Weight	0.2 lbs [90.72 g]
Mating Cycles	500 Cycles
Mating Torque	44.25 in-lbs [[5.00 Nm]]

7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF



TCP-600-716MC-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

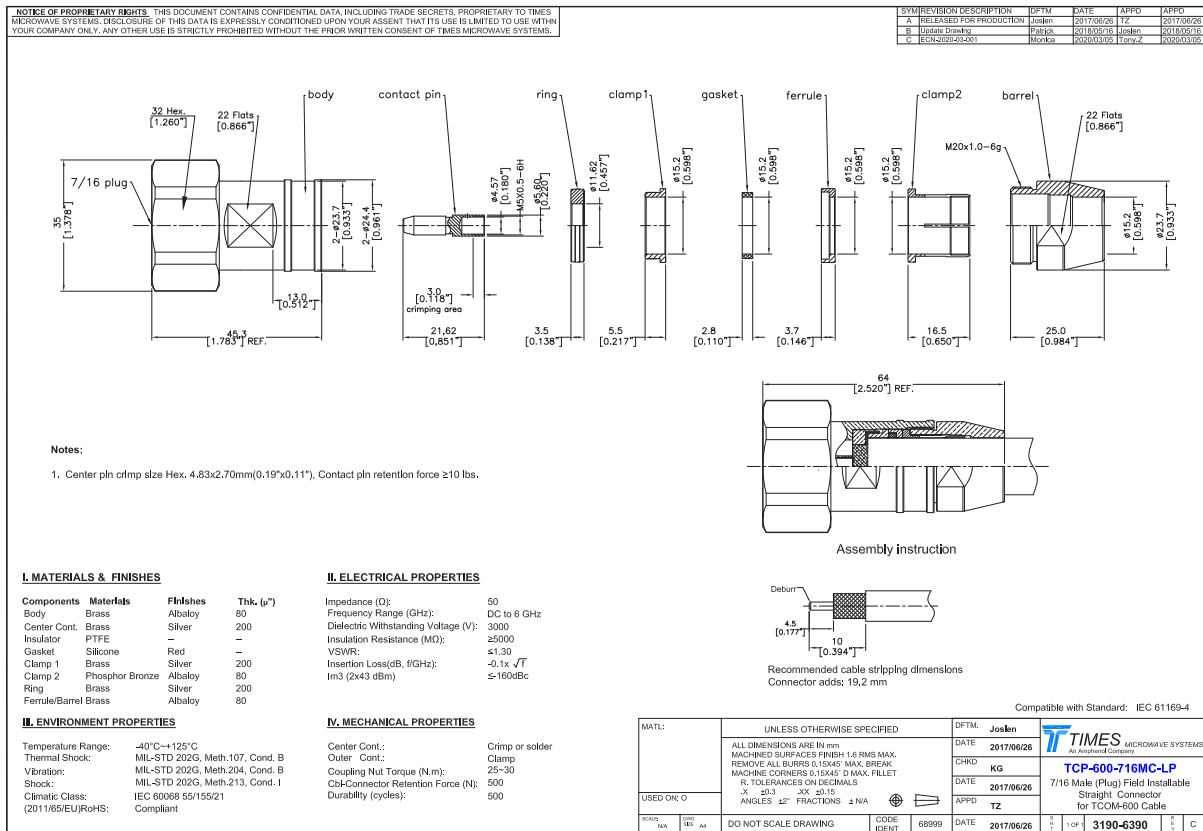
Notes:

7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF

TCP-600-716MC-LP



Assembly Instruction



7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-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.

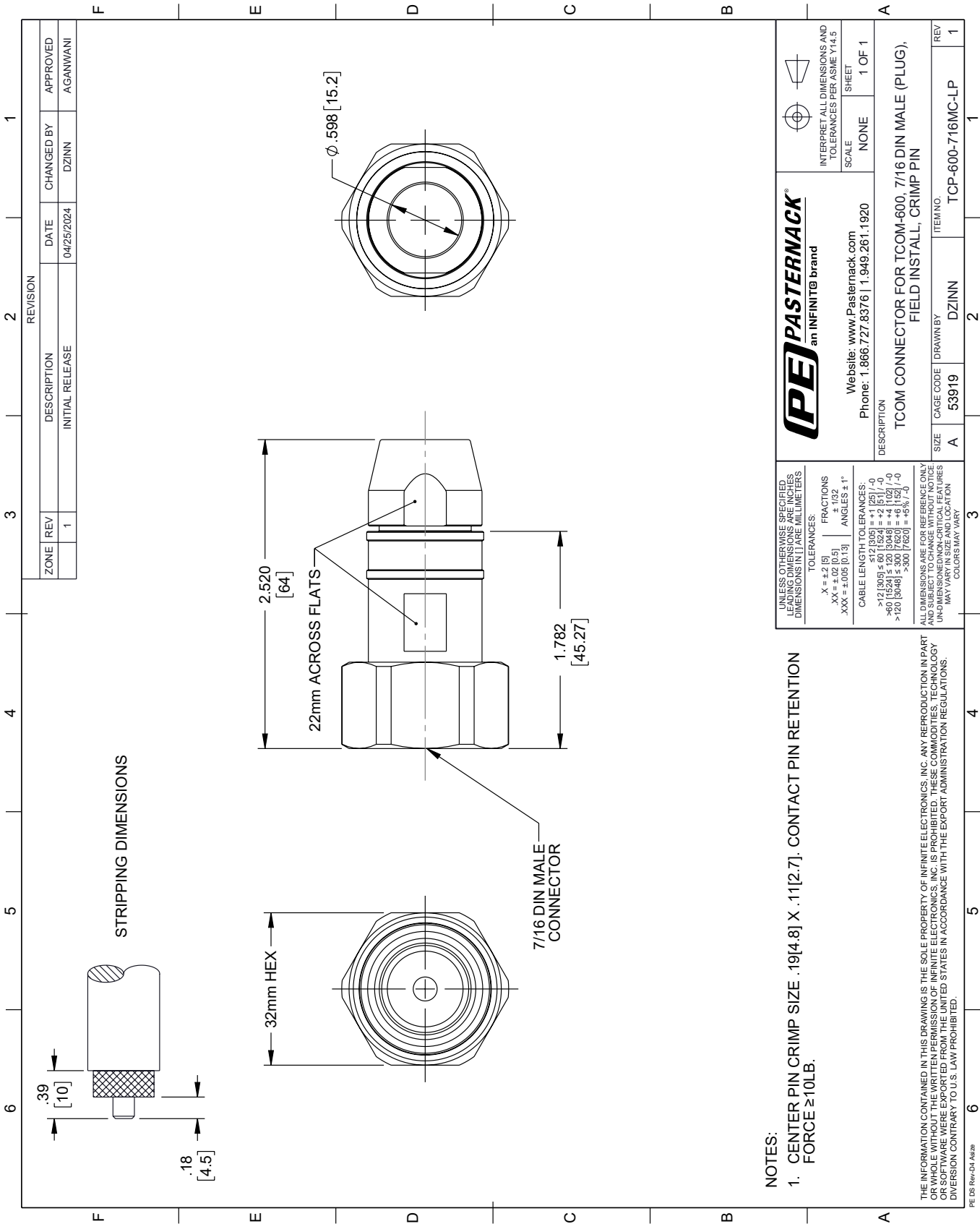
For additional information on this product, please click the following link: [7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF TCP-600-716MC-LP](https://www.fairviewmicrowave.com/7-16-din-male-tcom-600-tcom-600-fr-lmr-600-lmr-600-db-lmr-600-fr-lmr-600-uf-lmr-lw600-connector-tcp-600-716mc-lp-p.aspx)

URL: <https://www.fairviewmicrowave.com/7-16-din-male-tcom-600-tcom-600-fr-lmr-600-lmr-600-db-lmr-600-fr-lmr-600-uf-lmr-lw600-connector-tcp-600-716mc-lp-p.aspx>

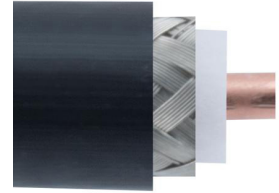
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TCP-600-716MC-LP CAD Drawing

7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF



TCOM-600-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated



TCOM-600-FR

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 87% 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-600 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-600-FR 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 0.590 inch diameter. The maximum passive intermodulation of this low PIM cable is -155 dBc.

Fairview Microwave's TCOM-600-FR 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 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 0.45, 1.1, 1.9, 2.8, 4.5, 7.6 and 11.0 dB/100ft at frequencies of 30 MHz, 150 MHz, 450 MHz, 900 MHz, 2000 MHz, 5800 MHz and 10000 MHz respectively.

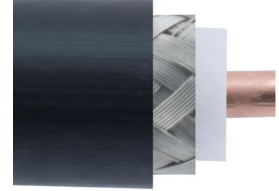
The TCOM-600 coax cable with foam polyethylene dielectric can operate at temperatures ranging from -40 to +85 deg C. Additional specifications for this TCOM-600-FR RF coaxial cable are on our downloadable PDF datasheet above. Our low PIM coaxial cable has a dielectric withstanding voltage of 4000 Vdc. This low PIM RF cable has a one time minimum bend radius of 1.5 inches and a repeat minimum bend radius of 6.0 inches. Our flexible 50 Ohm coax cable has a peak power rating of 40000 watts.

TCOM-600 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 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		10	GHz
Impedance		50		Ohms
Velocity of Propagation		87		%
Time Delay		1.17 [3.84]		ns/ft [ns/m]
Shielding Effectiveness	100			dB

TCOM-600-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated



TCOM-600-FR

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passive Intermodulation			-155	dBc
Dielectric Withstanding Voltage (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			0.53	Ohms/1000ft
Outer Conductor DC Resistance			1.52	Ohms/1000ft
Nominal Capacitance		23.4 [76.77]		pF/ft [pF/m]
Nominal Inductance		0.058 [0.19]		uH/ft [uH/m]
Input Power (Peak)			40	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.03	0.15	0.45	0.9	2	GHz
Attenuation, Typ	0.45	1.1	1.9	2.8	4.5	dB/100ft
	1.48	3.61	6.23	9.19	14.76	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	5.8	10				GHz
Attenuation, Typ	7.6	11				dB/100ft
	24.93	36.09				dB/100m

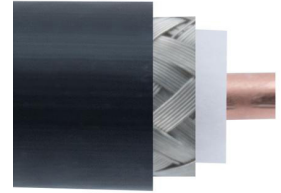
Mechanical Specifications

Diameter	0.59 in [14.99 mm]
Weight	0.154 lbs/ft [0.23 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 Strand	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]

TCOM-600-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated



TCOM-600-FR

Construction Specifications

Description	Material and Plating	Diameter
Jacket	FRPE, 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-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-600-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated TCOM-600-FR](#)

URL: <https://www.fairviewmicrowave.com/tcom600fr-low-pim-flexible-coax-cable-frpe-jacket-tcom-600-fr-p.aspx>

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TCOM-600-FR CAD Drawing

TCOM-600-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated

