

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 in 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]]

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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

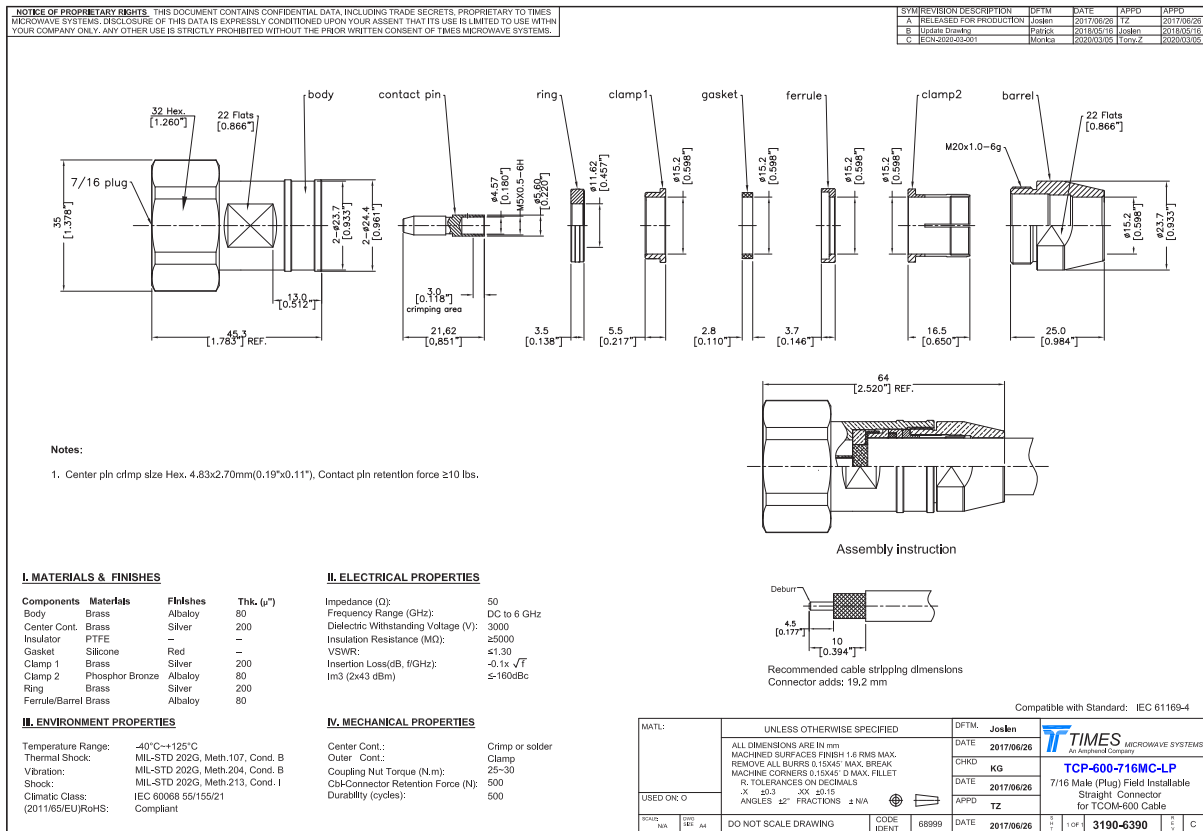
Notes:

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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.

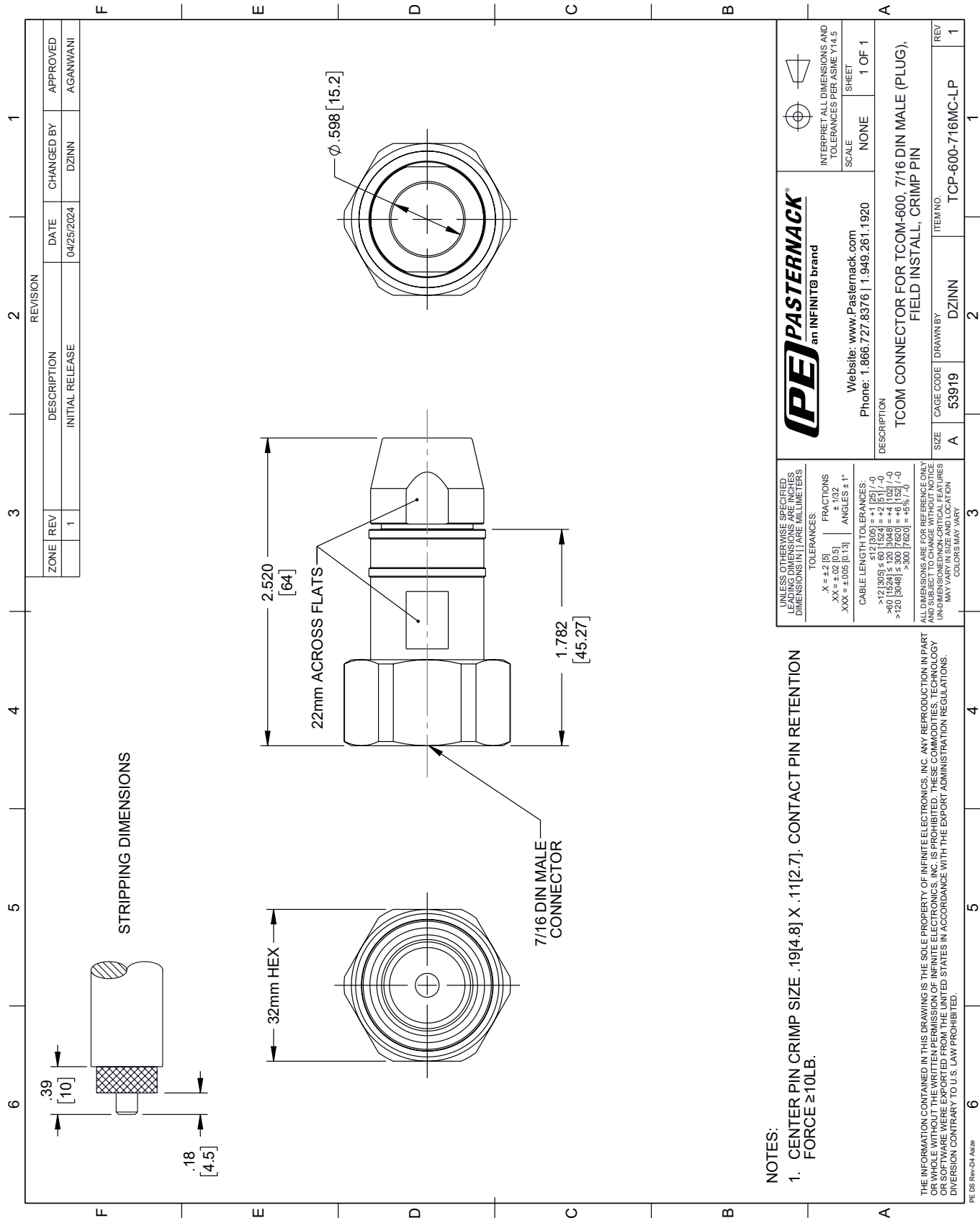
For additional information on this product, please click the following link: [7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF TCP-600-716MC-LP](https://www.fairviewmicrowave.com/7-16-din-male-tcom-600-tcom-600-fr-lmr-600-lmr-600-db-lmr-600-fr-lmr-600-uf-lmr-lw600-connector-tcp-600-716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



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Environmental Specifications

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Operating Range

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Shock

MIL-STD-202G, Meth.213, Con.I

Vibration

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Thermal Shock

MIL-STD-202G, Meth.107, Cond.B

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

Plotted and Other Data

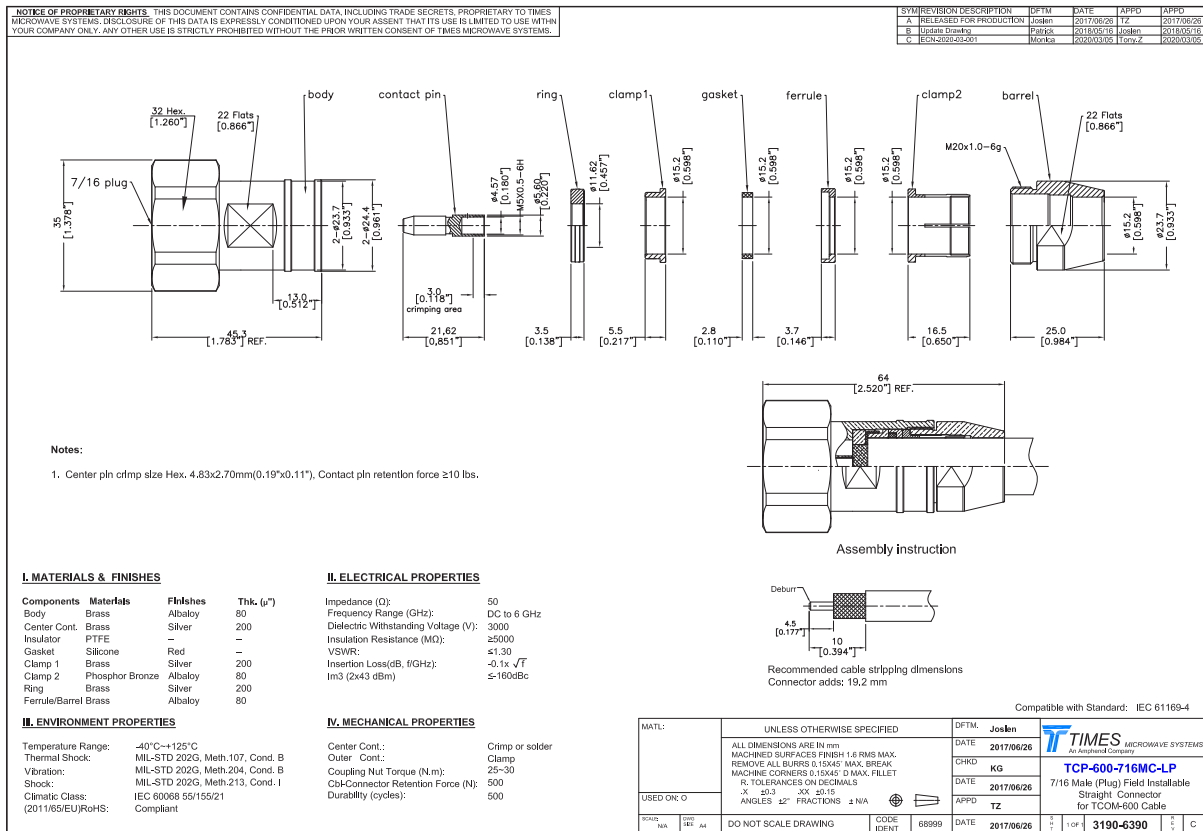
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TCP-600-716MC-LP



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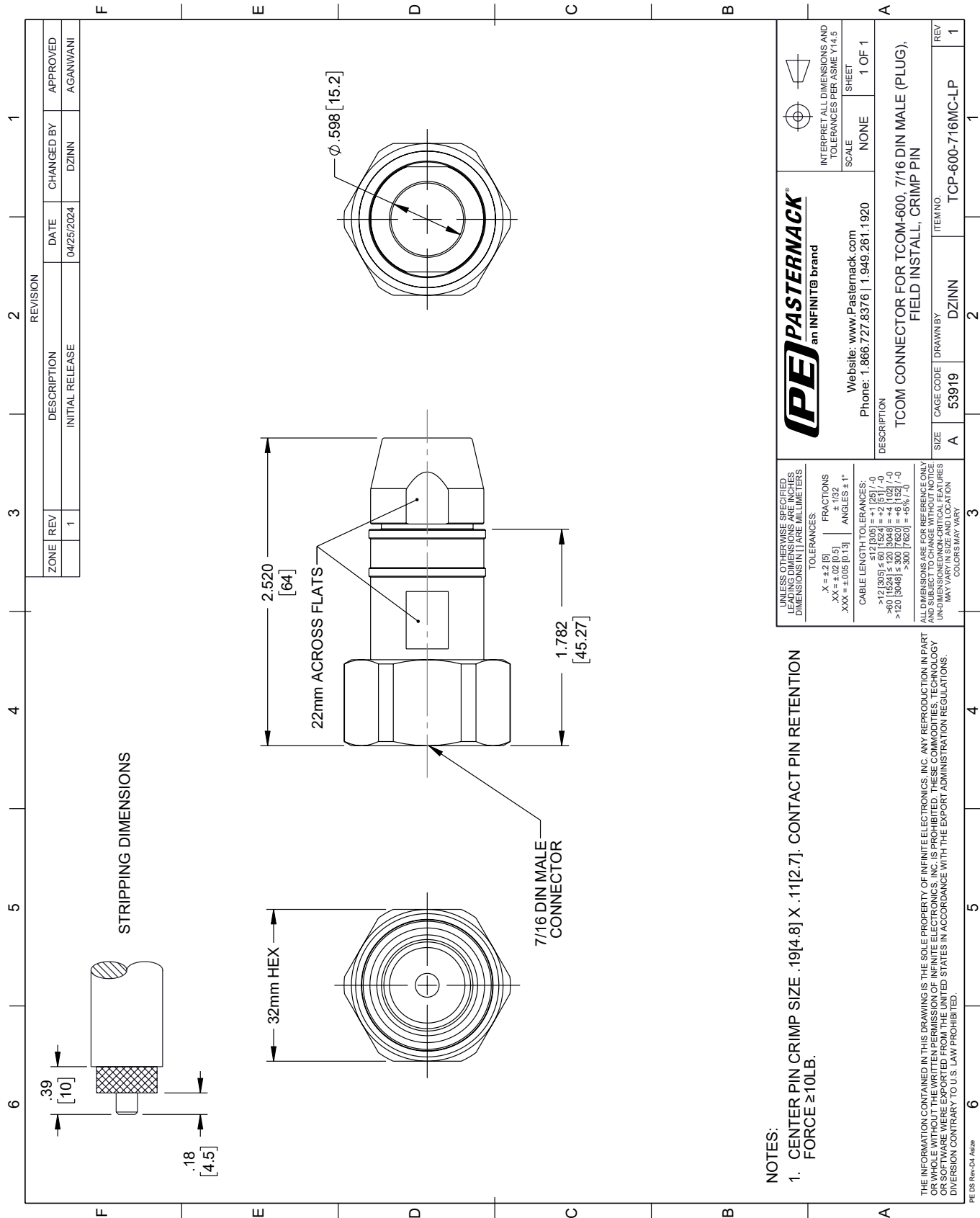
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URL: <https://www.fairviewmicrowave.com/7-16-din-male-tcom-600-tcom-600-fr-lmr-600-lmr-600-db-lmr-600-fr-lmr-600-uf-lmr-lw600-connector-tcp-600-716mc-lp-p.aspx>

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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



Times Microwave LMR-600-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex

Times Microwave Systems Coax Cable Specification

LMR-600-UF Ultra Flex version of the 600 series Low Loss Coax from Times Microwave is part of the large product offering by Fairview Microwave of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Fairview Microwave LMR-600-UF coax cable is manufactured in an ultra flexible design and has a 50 Ohm impedance. This low loss and ultra flexible 50 Ohm coax cable LMR-600-UF is constructed with a 0.590 inch diameter and Black TPE jacket.

LMR-600-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.590 inch diameter and low loss ultra flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-600-UF TPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Fairview Microwave's offering of LMR-600-UF coax cable provides specs for this wire on its RF coax cable LMR-600-UF datasheet.

LMR-600-UF cable is part of more than one million RF, microwave parts in stock at Fairview Microwave. This Times Microwave low loss ultra flexible LMR-600-UF 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 same-day from our warehouse as with the rest of our other RF/microwave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		87		%
Time Delay		1.17 [3.84]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
DWV (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resist.			0.43	Ohms/1000ft
Outer Conductor DC Resist.			1.2	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

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	0.7	1.2	1.4	2.1	3	dB/100ft
	2.3	3.94	4.59	6.89	9.84	dB/100m



Configuration:

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

Features:

- Max Operating Frequency of 5.8 GHz
- Phase Velocity 87% VoP
- Stranded Center Conductor Resulting in an Ultra Flexible Coax
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 1.5 inches

Applications:

- Laboratory Applications
- General Purpose RF Interconnect
- RF Test Systems Requiring Highly Flexible Coax
- Antenna Installs

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sales@fairviewmicrowave.com

Power In (CW), Max 3,530 2,000 1,640 1,120 770 Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	4	4.4	4.7	5.3	8.7	dB/100ft
	13.12	14.44	15.42	17.39	28.54	dB/100m
Power In (CW), Max	580	520	490	430	260	Watts

Mechanical Specifications

Diameter	0.59 in [14.99 mm]
Weight	0.165 lbs/ft [0.25 Kg/m]
Min. Bend Radius (Installation)	1.5 in [38.1 mm]
Min. Bend Radius (Repeated)	6 in [152.4 mm]
Bending Moment	1.75 lbs-ft [2.37 N-m]
Tensile Strength	350 lbs [158.76 kg]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strands	0.176 in [4.47 mm]
Conductor Type	Stranded	
Dielectric	Foam PE	0.455 in [11.56 mm]
First Shield	Aluminum Tape	[]
Second Shield	Tinned Copper	[]
Jacket	TPE, 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

Environmental Specification Notes:
Indoor/Outdoor

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

Plotted and Other Data

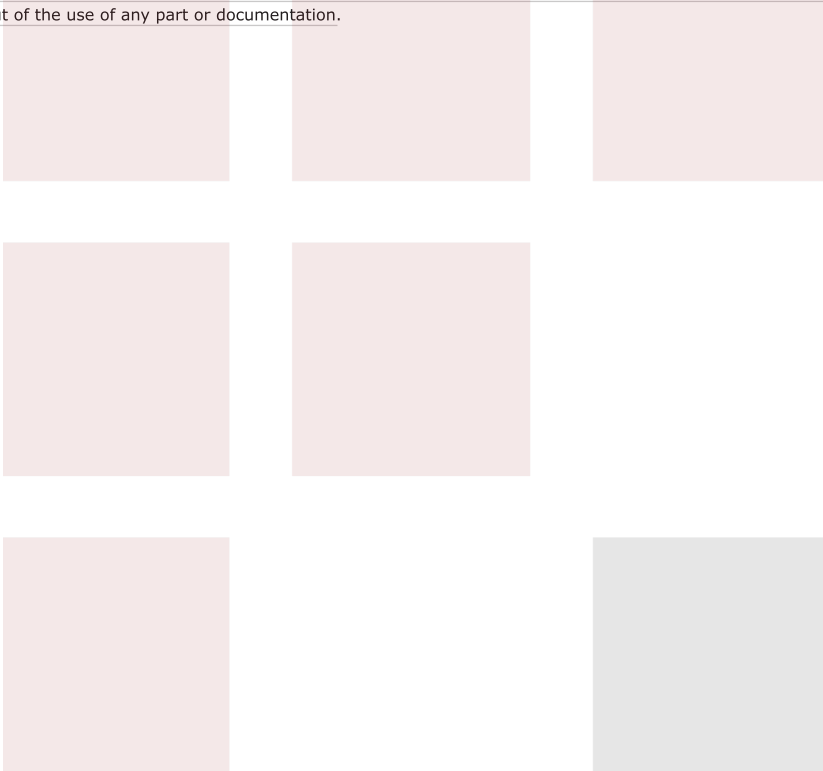
Notes:

Times Microwave LMR-600-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

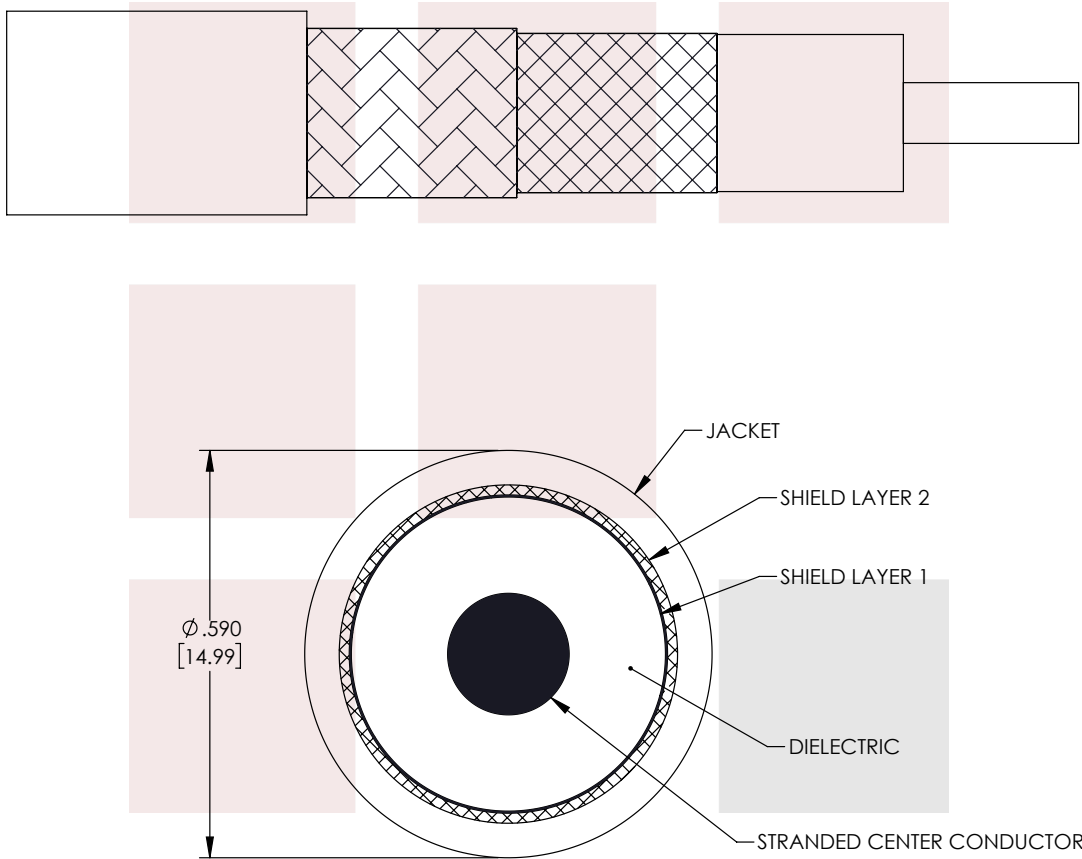
Click the following link to obtain additional part information: [Times Microwave LMR-600-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex LMR-600-UF](#)

URL: <https://www.fairviewmicrowave.com/lmr-600-uf-low-loss-flexible-coax-cable-tpe-jacket-lmr-600-uf-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06-04-2021	SELLIS



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TITLE

Times Microwave LMR-600-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex

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

TOLERANCES:

.X = $\pm .2$ [5.08] FRACTIONS
.XX = $\pm .02$ [.51] $\pm 1/32$
.XXX = $\pm .005$ [.13] ANGLES $\pm 1^\circ$

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 = $\pm 5\%$ L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
SIZE A	CAGE CODE 3FKR5	DRAWN BY MVEERAPPAN	ITEM NO. LMR-600-UF
			REV A

T-Rev.D