

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, PE-C600
- Low PIM Design

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- PIM levels lower 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

Pasternack's TCP-600-716MC-LP, 7/16 DIN, Low PIM, Connector is part of our full line of RF components available for same-day shipping. Our 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 of -160 dBc.

Our 7/16 DIN male connector TCP-600-716MC-LP datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship 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

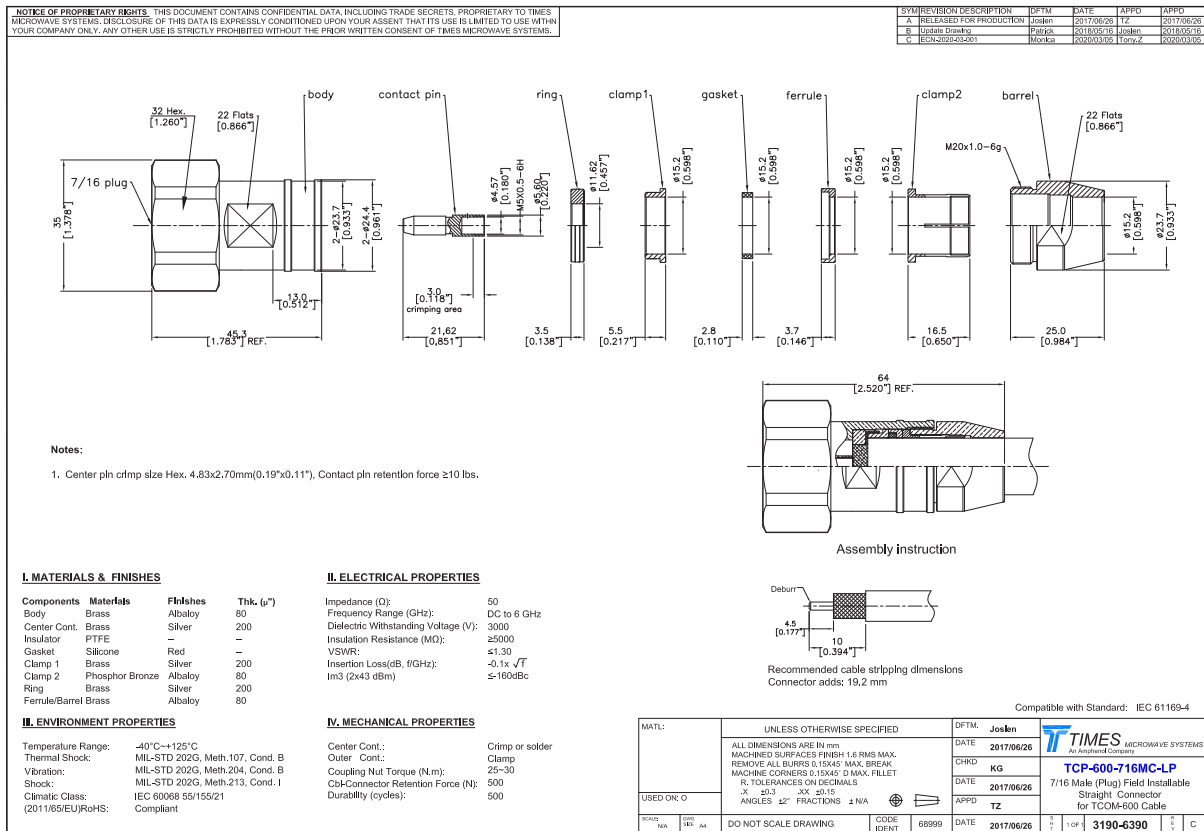
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TCP-600-716MC-LP



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 Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

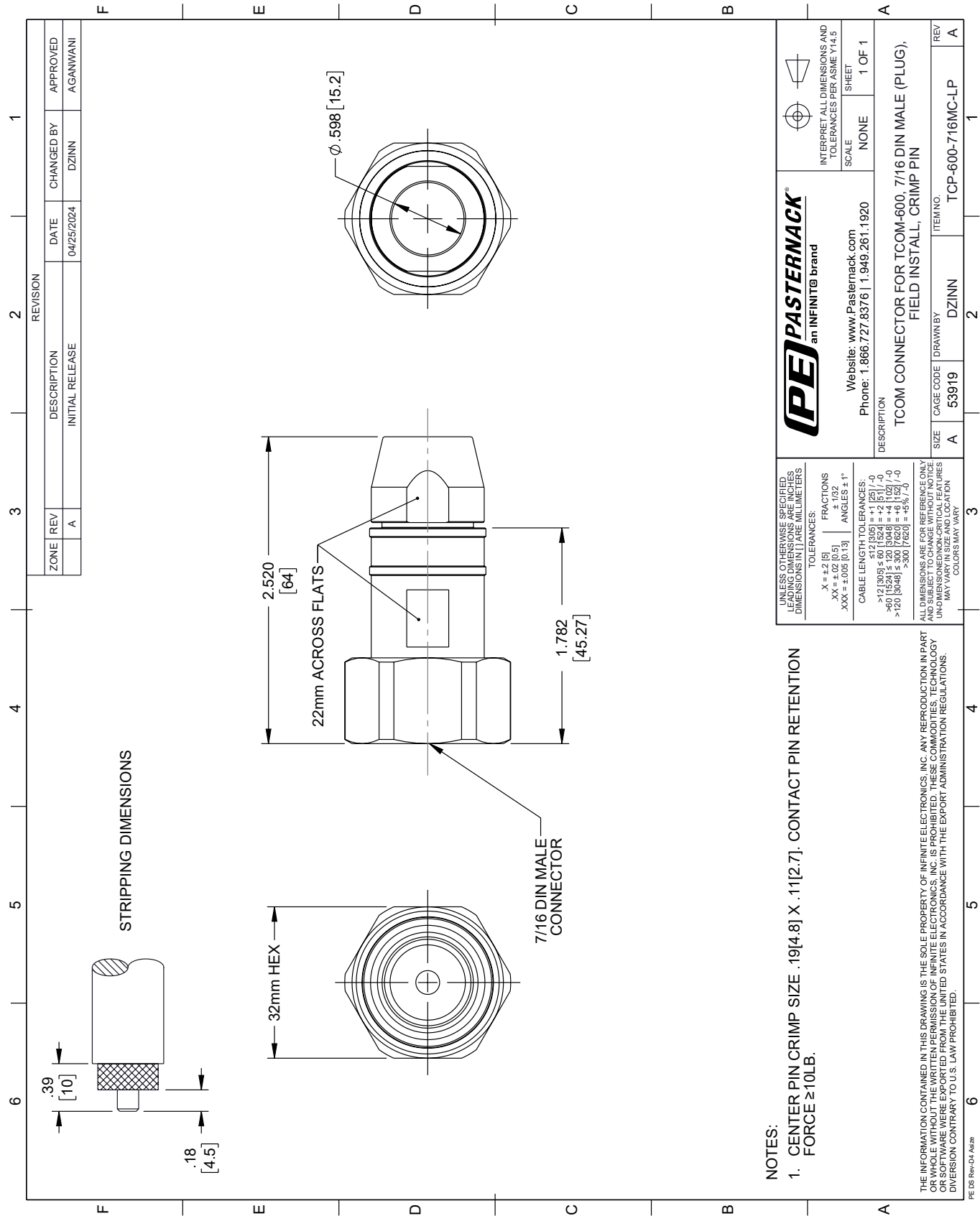
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF TCP-600-716MC-LP](https://www.pasternack.com/7-16-din-male-tcom-600-connector-tcp-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



NOTES:

1. CENTER PIN CRIMP SIZE .19[4.8] X .11[2.7]. CONTACT PIN RETENTION FORCE ≥ 10 LB.

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PE DS Rev-D4 Adda

(PE) PASTERNAK® an INFINITE® brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE MILLIMETERS.		TOLERANCES: X = $\pm .2 [5]$.XX = $\pm .02 [0.5]$.XXX = $\pm .005 [0.13]$		FRACTIONS $\pm 1/32$ ANGLES $\pm 1^\circ$	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF INDIVIDUAL PARTS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		CABLE LENGTH TOLERANCES: >12 [305] $\leq 60 [1524]$ = $\pm .125 [-0]$ >60 [1524] $\leq 120 [3048]$ = $\pm .125 [-0]$ >120 [3048] $\leq 300 [7620]$ = $\pm .125 [-0]$ >300 [7620] = $\pm .125 [-0]$		SCALE NONE	
DESCRIPTION TCOM CONNECTOR FOR TCOM-600, 7/16 DIN MALE (PLUG), FIELD INSTALL, CRIMP PIN		SHEET 1 OF 1		REV A	
ITEM NO. TCP-600-716MC-LP		DRAWN BY DZINN		REV A	
SIZE A		CAGE CODE 53919		REV A	

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, PE-C600
- Low PIM Design

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- PIM levels lower 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

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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]
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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

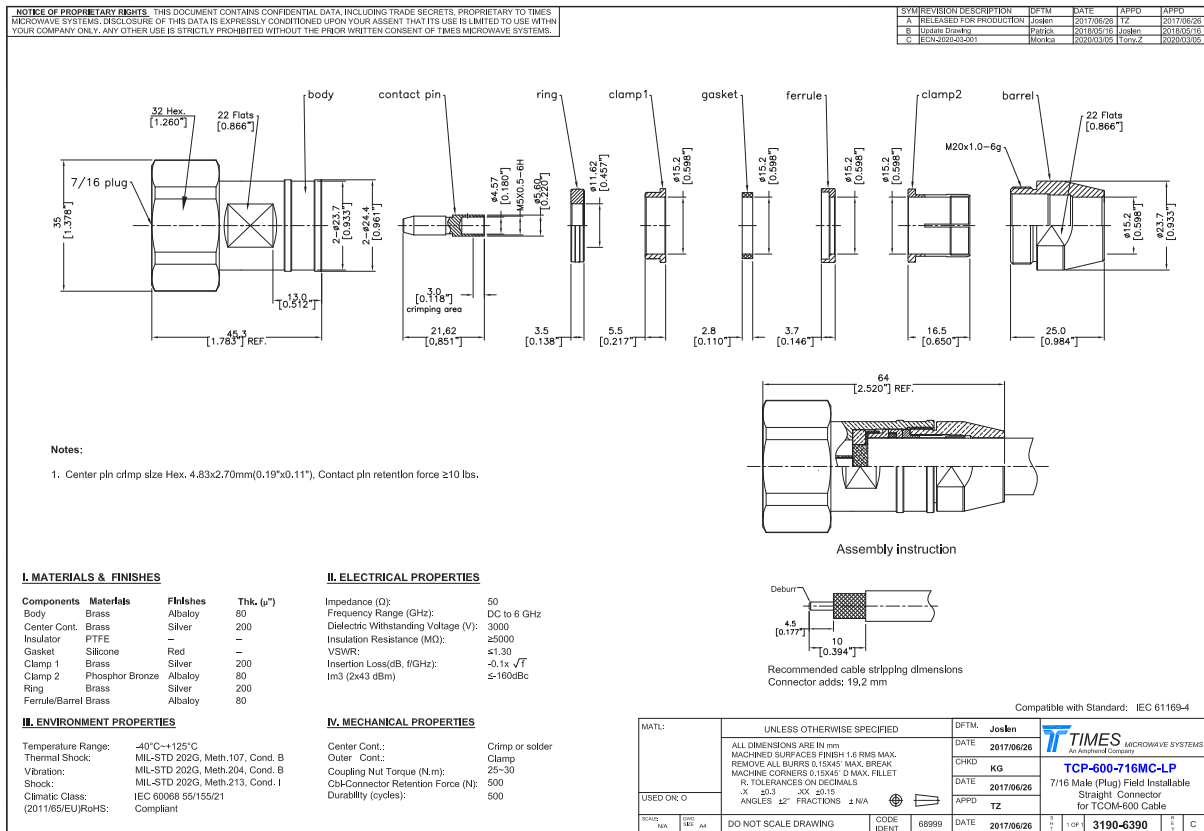
Notes:

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TCP-600-716MC-LP



Assembly Instruction



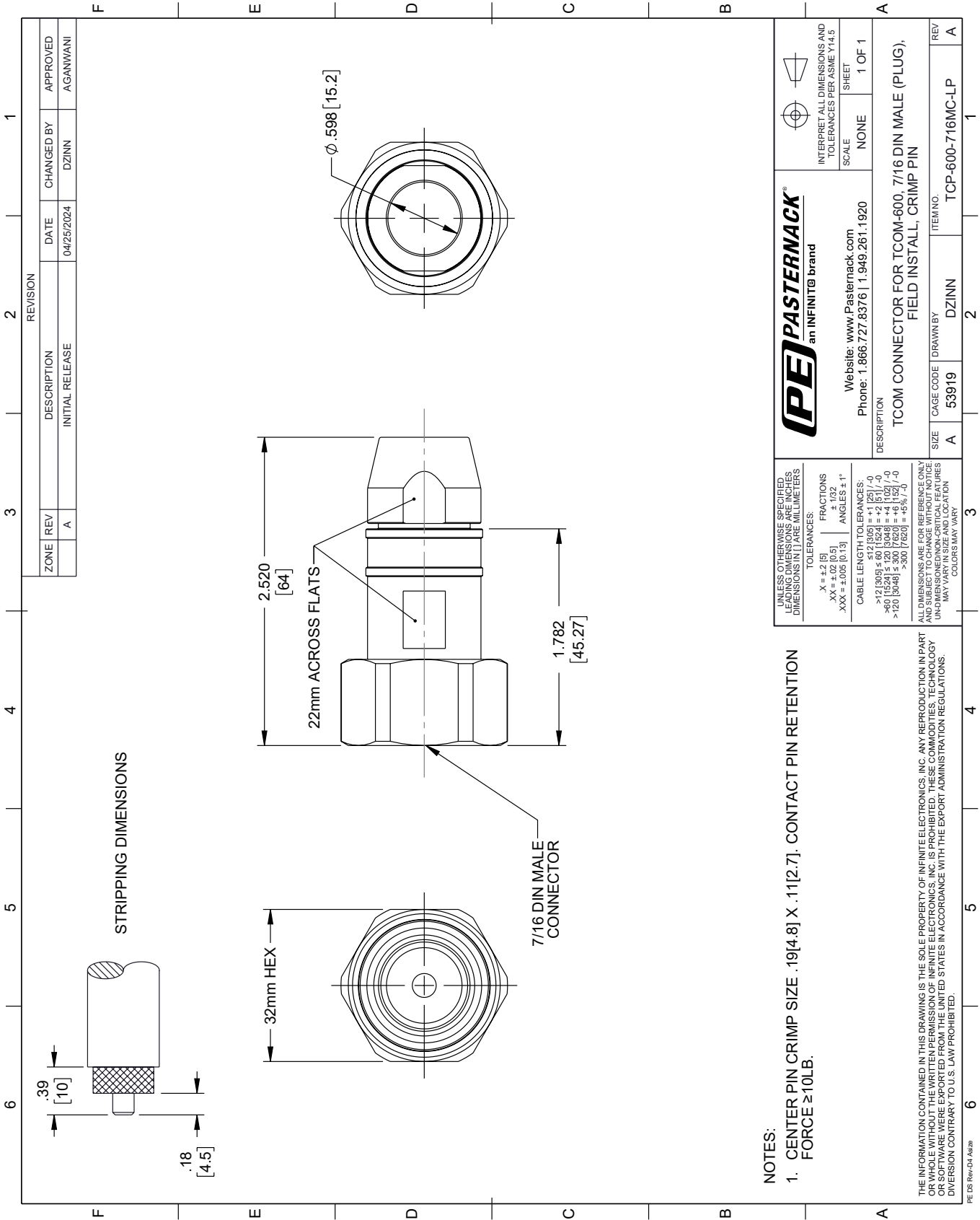
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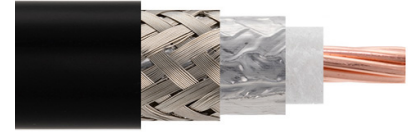
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TCP-600-716MC-LP CAD Drawing
7/16 DIN Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF



Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex



LMR-600-UF



Times Microwave Systems Connector Specification

Configuration

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

Features

- Ultra Flexible Coax with Stranded Center Conductor
- Max Operating Frequency of 8 GHz
- Phase Velocity 87% VoP
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 1.5 inches

Applications

- RF Test Systems
- Antenna Installs
- Laboratory Applications
- General Purpose RF Interconnect
- Jumper Assemblies

Description

LMR-600-UF Ultra Flex version of the 600 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack 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 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. Pasternack's offering of LMR-600-UF coax cable provides specs for this wire on its RF coax cable LMR-600-UF datasheet.

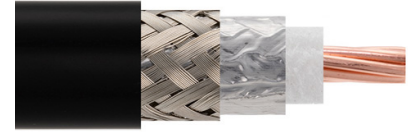
LMR-600-UF cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-600-UF coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		87		%
Time Delay		1.17 [3.84]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			0.43	Ohms/1000ft

Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex



LMR-600-UF

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Outer Conductor DC Resistance			1.2	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	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
Input Power (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	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
Input Power (CW), Max	580	520	490	430	260	Watts

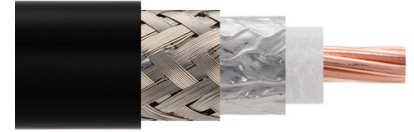
Mechanical Specifications

Diameter	0.59 in [14.99 mm]
Weight	0.176 lbs/ft [0.26 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 Strand	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]

Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex



LMR-600-UF

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:

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URL: <https://www.pasternack.com/low-loss-flexible-lmr-600-uf-tpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-600-uf-p.aspx>

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Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex

