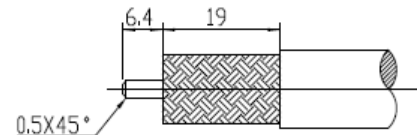
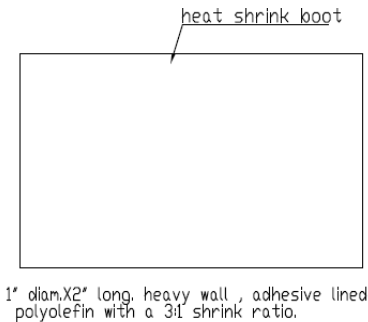
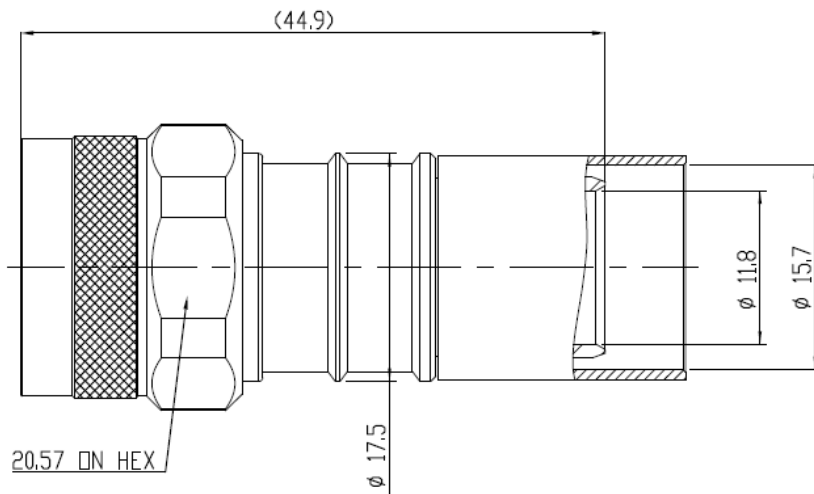


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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	D. J. H.	8/9/11	J. D. B.	8/16/11
B	CHANGED PER CDC #36735	N. N. N	4/8/13	J. D. B	4/10/13
C	CHANGED PER CDC #40601	N. N. N	8/26/14	J. D. B	9/10/14



Reference standard IEC60169-16

I. Electric Performance

Nominal Impedance(Ω): 50
Frequency Range: DC-6GHz
VSWR: ≤ 1.25
Insert Loss: ≤ 0.1 (DC-3GHz)
Insulation resistance ($M\Omega$): 25000
Proof voltage (V): 2500
Conductor resistance ($m\Omega$): outer conductor < 0.4
inner conductor < 0.8

II. Mechanical Performance

Nut torque: 5Nm
(Nut)Whorl pull: 500N
Tensile force(cable-connect): 500N
Torsion(cable-connect): 3Nm

III. Material and plating:

Component Material
Inner conductor Beryllium Bronze
Outer conductor Brass
Tube: copper
Nut: Brass
Gasket: Silicone rubber
Insulator: PTFE

IV. Environment

Temprange: -55°C~+155°C
Weather standard: IEC 60068 55 / 155/ 56
Thermal shock: US MIL-STD 202,Meth.107,Cond.B
Vibration: US MIL-STD 202,Meth.204,Cond.B
Shock: US MIL-STD 202,Meth.213,Cond.I
Waterproofing standard: IP67

V. Assembly: inner conductor installed and outer conductor crimped

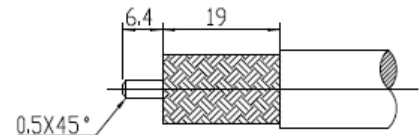
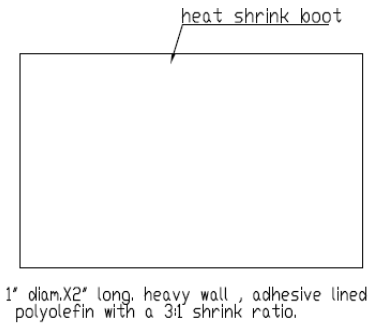
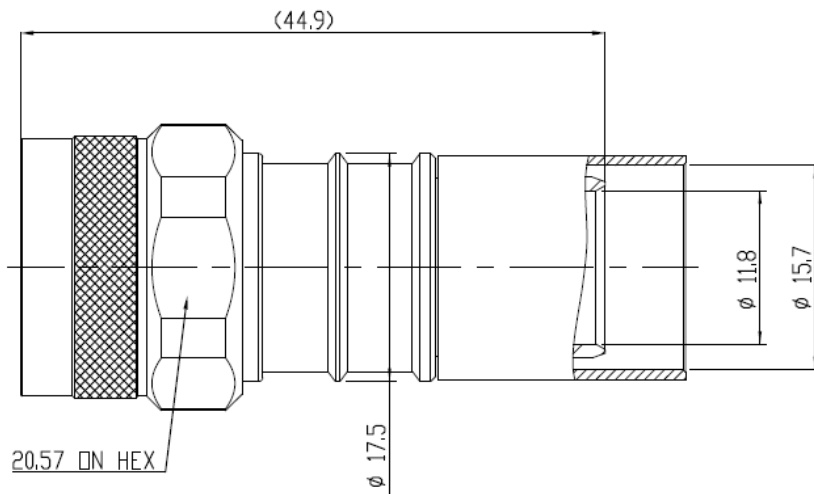
VI. ROHS Compliant.

Plating
Au50 micro inches over nickel 100 over copper
Copper-tin-zin 100-150 micro inches
Copper-tin-zin 100-150 micro inches
Copper-tin-zin 100-150 micro inches

MATL:	UNLESS OTHERWISE SPECIFIED		DFTM. D. J. H.	TIMES MICROWAVE SYSTEMS		
	ALL DIMENSIONS ARE IN mm		DATE 8/9/11			
	MACHINED SURFACES FINISH N/A RMS MAX.		CHKD. J. D. B.			
	REMOVE ALL BURRS N/A MAX. BREAK		DATE 8/16/11			
USED ON: 1-1	MACHINE CORNERS N/A MAX. FILLET R.		APPD. J. D. B.	EZ-600-NMH-X "N" MALE FOR LMR-600 CABLE EZ/CRIMP/NO BRAID TRIM		
	TOLERANCES ON DECIMALS		DATE 8/16/11			
	. XX $\pm$ N/A . XXX $\pm$ N/A		DATE 8/16/11			
	ANGLES $\pm 1^\circ$ FRACTIONS $\pm$ N/A		DATE 8/16/11			
SCALE: N/A	DWG. SIZE A	DO NOT SCALE DRAWING	CODE IDENT 68999	DATE 8/16/11	SHEET 1 of 1	SD3190-2627 REV C

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Insulator: PTFE

IV. Environment

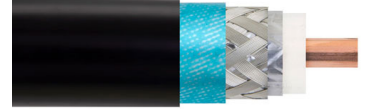
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Weather standard: IEC 60068 55 / 155/ 56
Thermal shock: US MIL-STD 202,Meth.107,Cond.B
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Copper-tin-zin 100-150 micro inches
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MATL:		UNLESS OTHERWISE SPECIFIED		DFTM. D. J. H.		TIMES MICROWAVE SYSTEMS									
		ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH N/A RMS MAX. REMOVE ALL BURRS N/A MAX. BREAK MACHINE CORNERS N/A MAX. FILLET R. TOLERANCES ON DECIMALS . XX ± N/A . XXX ± N/A ANGLES ± 1° FRACTIONS ± N/A		DATE 8/9/11											
USED ON: 1-1				CHKD. J. D. B.		EZ-600-NMH-X "N" MALE FOR LMR-600 CABLE EZ/CRIMP/NO BRAID TRIM									
				DATE 8/16/11											
SCALE: N/A		DWG. SIZE A		DO NOT SCALE DRAWING		CODE IDENT 68999		DATE 8/16/11		SHEET 1 of 1		SD3190-2627		REV C	



Low PIM Flexible TCOM-600 Coax Cable

Double Shielded with Black PE Jacket

RF Cables

Technical Data Sheet


TCOM-600

Times Microwave Systems Coax Cable Specification

Configuration

- Low PIM Flexible Cable
- 2 Shield(s)

Description

TCOM-600 part number from Pasternack is a low PIM coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a Foam PE dielectric. Our TCOM-600 coax cable is constructed with a 0.59-inch jacket made of polyethylene. This coaxial cable has a dielectric withstanding voltage of 4000 Vdc.

The TCOM-600 flexible RF cable has a shield count of 2 and RF shielding of 100 dB. Our coax cable from Pasternack has a maximum frequency of 10 GHz. The maximum passive intermodulation of this low PIM cable is -155 dBc. Additional specifications for this TCOM-600 double-shielded RF coaxial cable are on our downloadable PDF datasheet above.

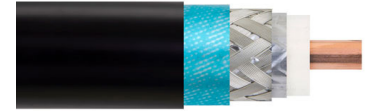
Our TCOM-600 coax cable can operate at temperatures ranging from -40 to 85 degrees C. This black-colored flexible RF cable with a 50 Ohm impedance has a typical insertion loss/maximum attenuation of 10.6 dB/100ft at a frequency of 10 GHz. The TCOM-600 flexible RF cable has a solid copper clad aluminum center conductor. This coaxial cable features a dual shield of tinned copper braid over the silver plated copper braid.

Pasternack TCOM-600 low PIM coax cables are part of over 40,000 RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using TCOM-600 or other coax can be built and shipped the same business day as well.

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
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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM Flexible TCOM-600 Coax Cable Double Shielded with Black PE Jacket TCOM-600](#)



Low PIM Flexible TCOM-600 Coax Cable Double Shielded with Black PE Jacket

RF Cables Technical Data Sheet


TCOM-600

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	1.2	1.8	2.6	3.5	dB/100ft
	3.28	3.94	5.91	8.53	11.48	dB/100m
Input Power (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	4.1	4.6	7.6	10.6	dB/100ft
	12.8	13.45	15.09	24.93	34.78	dB/100m
Input Power (CW), Max	600	560	500	300	220	Watts

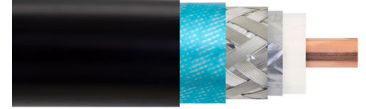
Mechanical Specifications

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 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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM Flexible TCOM-600 Coax Cable Double Shielded with Black PE Jacket TCOM-600](#)



Low PIM Flexible TCOM-600 Coax Cable Double Shielded with Black PE Jacket

RF Cables Technical Data Sheet



TCOM-600

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:

Low PIM Flexible TCOM-600 Coax Cable Double Shielded with Black PE Jacket 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.

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URL: <https://www.pasternack.com/low-pim-flexible-tcom600-pe-jacket-silver-plated-copper-braid-over-tinned-copper-braid-outer-conductor-double-shielded-tcom-600-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

