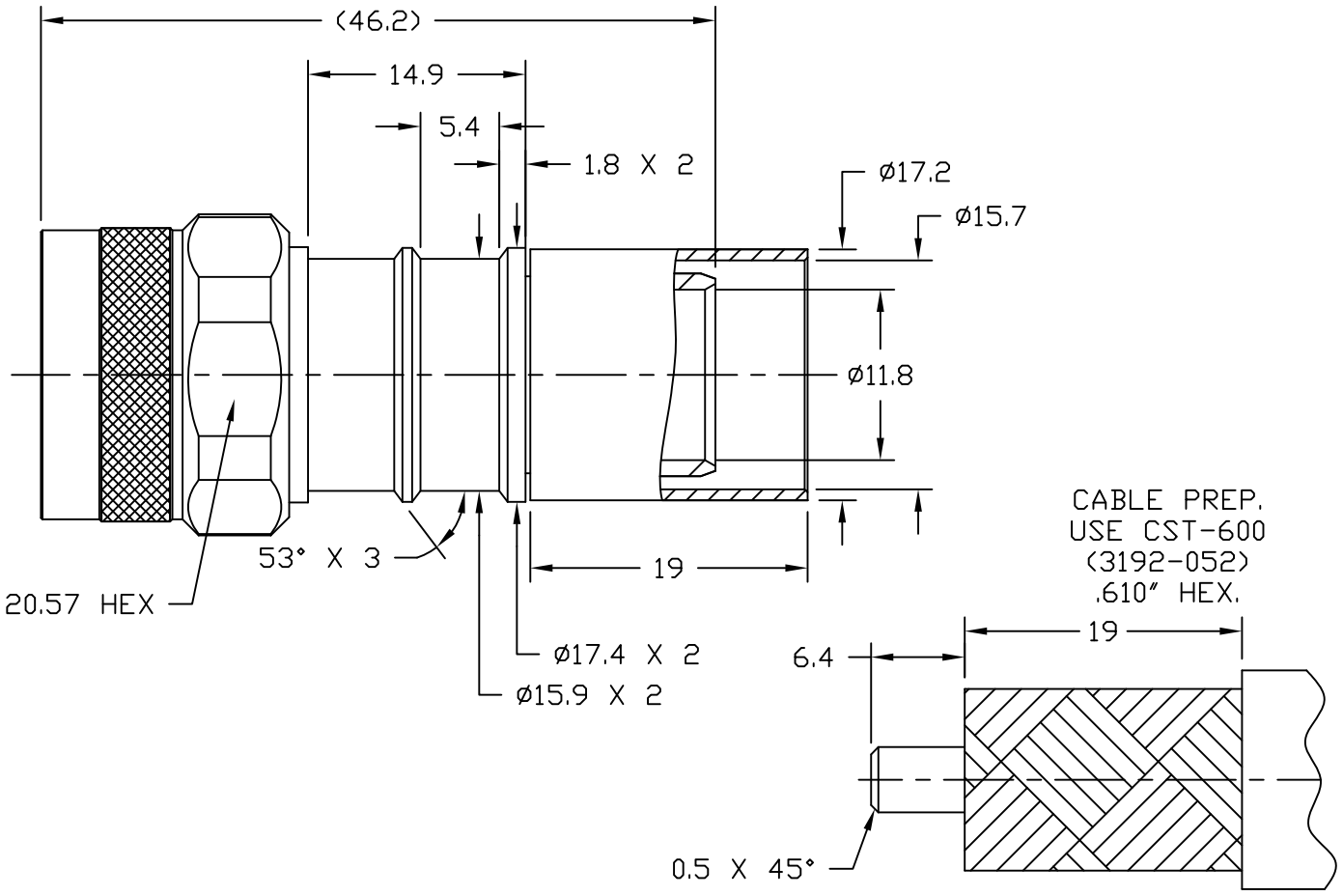
SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	D. J. H.	8/9/11	J. D. B.	8/16/11



Reference standard	IEC60169-16
I. Electric Performance	
Impedance(Ω):	50
Frequency Range:	DC-6GHz
VSWR:	≤1.25
Insert Loss: (dB)	≤0.1(DC-3GHz)
Insulation resistance (MΩ)	≥5000
Proof voltage (V)	2500
Conductor resistance (mΩ)	outer conductor <0.4
	inner conductor <0.8
II. Mechanical Performance	
Nut torque	5N.m
(Nut) Whorl pull	500N
Tensile force (cable-connect)	500N
Torsion (cable-connect)	5N.m

III. Material and plating:

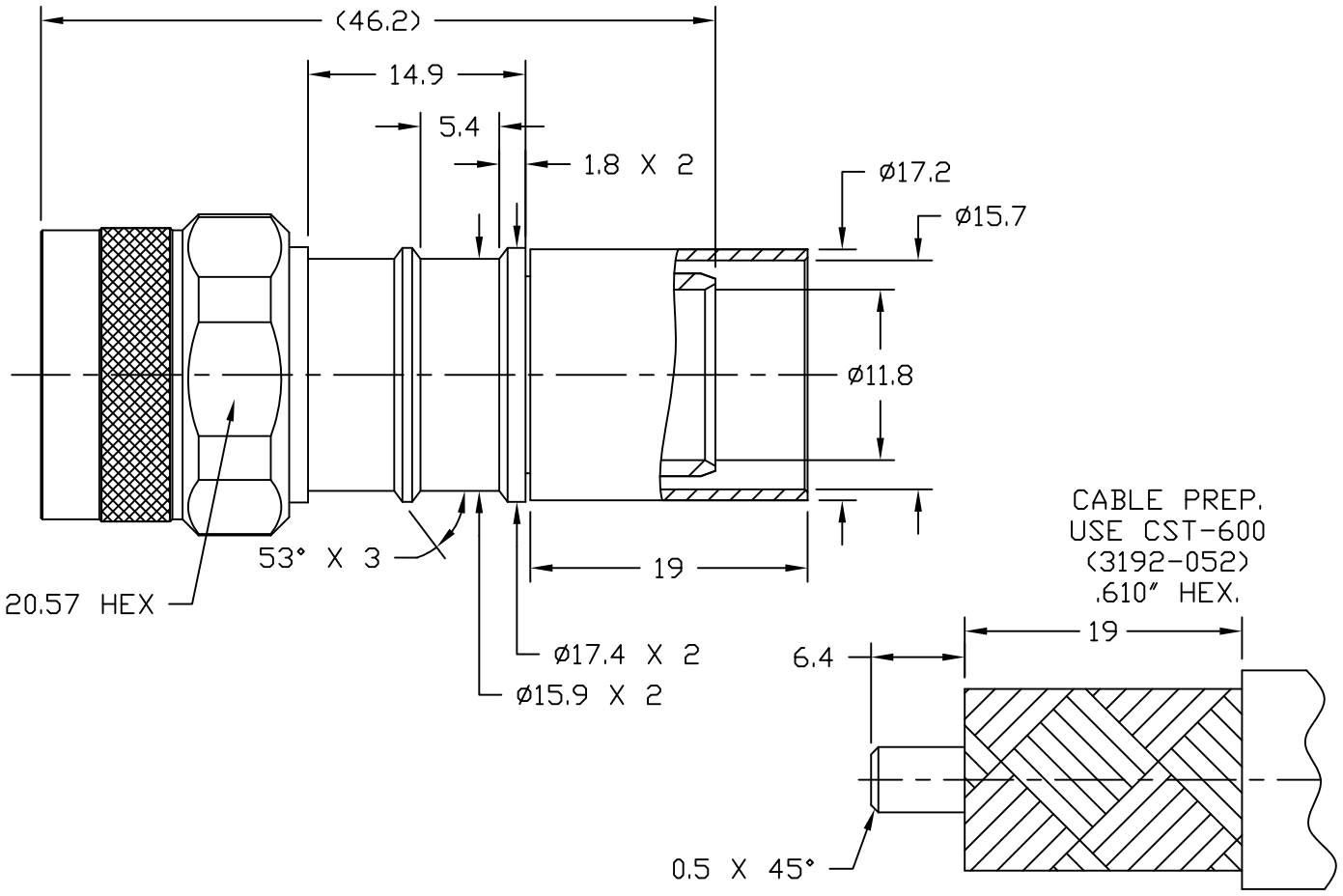
Component	Material	Plating
inner conductor	Brass	Au50 micro inches over nickel 100 over copper
outer conductor	Brass	copper tin-zinc 100-150 micro inches
tube	Copper	copper tin-zinc 100-150 micro inches
nut	Brass	copper tin-zinc 100-150 micro inches
gasket	Silicone rubber	
insulator	PTFE	

IV. Environment	
Temp. range	-55℃~+155℃
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.

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: 0		CHKD. J. D. B.	**EZ-600-NMH-X**	
		DATE 8/16/11	"N" MALE FOR LMR-600 CABLE EZ/CRIMP/NO BRAID TRIM	
SCALE: N/A	DWG. SIZE A / DO NOT SCALE DRAWING / CODE IDENT 68999	APPD. J. D. B.		
		DATE 8/16/11	SHT. 1 of 1	SD3190-2627 REV. A

SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	D. J. H.	8/9/11	J. D. B.	8/16/11



Reference standard	IEC60169-16
I. Electric Performance	
Impedance(Ω):	50
Frequency Range:	DC-6GHz
VSWR:	≤1.25
Insert Loss: (dB)	≤0.1(DC-3GHz)
Insulation resistance (MΩ)	≥5000
Proof voltage (V)	2500
Conductor resistance (mΩ)	outer conductor <0.4
	inner conductor <0.8
II. Mechanical Performance	
Nut torque	5N.m
(Nut) Whorl pull	500N
Tensile force (cable-connect)	500N
Torsion (cable-connect)	5N.m

III. Material and plating:

Component	Material	Plating
inner conductor	Brass	Au50 micro inches over nickel 100 over copper
outer conductor	Brass	copper tin-zinc 100-150 micro inches
tube	Copper	copper tin-zinc 100-150 micro inches
nut	Brass	copper tin-zinc 100-150 micro inches
gasket	Silicone rubber	
insulator	PTFE	

IV. Environment	
Temp. range	-55℃~+155℃
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.

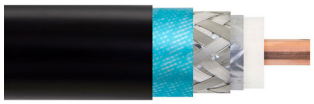
MATL:	UNLESS OTHERWISE SPECIFIED	DFTM. D. J. H.	TIMES MICROWAVE SYSTEMS	
	ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH N/A RMS MAX. REMOVE ALL BURRS N/A MAX. BREAK MACHINE CORNERS N/A MAX. FILLET R. TOLERANCES ON DECIMALS .XX ± N/A .XXX ± N/A ANGLES ± 1° FRACTIONS ± N/A	DATE 8/9/11		
USED ON: 0		CHKD. J. D. B.	**EZ-600-NMH-X**	
		DATE 8/16/11	"N" MALE FOR LMR-600 CABLE EZ/CRIMP/NO BRAID TRIM	
SCALE: N/A	DWG. SIZE A / DO NOT SCALE DRAWING / CODE IDENT 68999	APPD. J. D. B.		
		DATE 8/16/11	SHT. 1 of 1	SD3190-2627 REV. A

Fairview Microwave
an INFINITE brand

TIMES MICROWAVE SYSTEMS

TCOM-600 DATA SHEET

TCOM-600 Low PIM Flexible Coax Cable Black PE Jacket



Times Microwave Systems Coax Cable Specification

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 quick shipment. Fairview Microwave's TCOM-600 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 0.59-inch diameter. The maximum passive intermodulation of this low PIM cable is -155 dBc.

Fairview Microwave's TCOM-600 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 10.6 dB/100ft at a frequency of 10 GHz.

The TCOM-600 coax cable with foam PE dielectric can operate at temperatures ranging from -40 to 85 degrees C. Additional specifications for this TCOM-600 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 4000 Vdc.

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 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		87		%
Time Delay		1.17 [3.84]		ns/ft [ns/m]
Shielding Effectiveness	100			dB
Passive Intermodulation			-155	dBc
DWV (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resist.			0.53	Ohms/1000ft
Outer Conductor DC Resist.			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

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
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 3.28	1.2 3.94	1.8 5.91	2.6 8.53	3.5 11.48	dB/100ft dB/100m
Power In (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 12.8	4.1 13.45	4.6 15.09	7.6 24.93	10.6 34.78	dB/100ft dB/100m
Power In (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 Strands	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]
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:

TCOM-600 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.

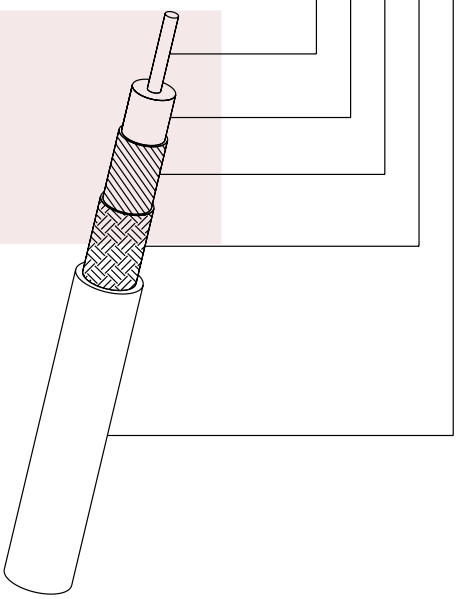
Click the following link to obtain additional part information: TCOM-600 Low PIM Flexible Coax Cable Black PE Jacket TCOM-600

URL: https://www.fairviewmicrowave.com/tcom600-low-pim-flexible-coax-cable-pe-jacket-tcom-600-p.aspx

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

REVISION

Inner Conductor	Ø.176 [4.47]	Solid BCCAl
Dielectric	Ø.455 [11.56]	Foam PE (Polyethylene)
First Shield	Ø.465 [11.81]	SPC Strip Braid
Second Shield	Ø.500 [12.70]	TC Braid Over Al Tape
Jacket	Ø.590 [14.99]	Black PE (Polyethylene)



TCOM-600 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

Fairview Microwave®
an INFINITE brand

Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE | SHEET: 1 OF 1

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

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	KDANG	TCOM-600	A

T-Rev.D2