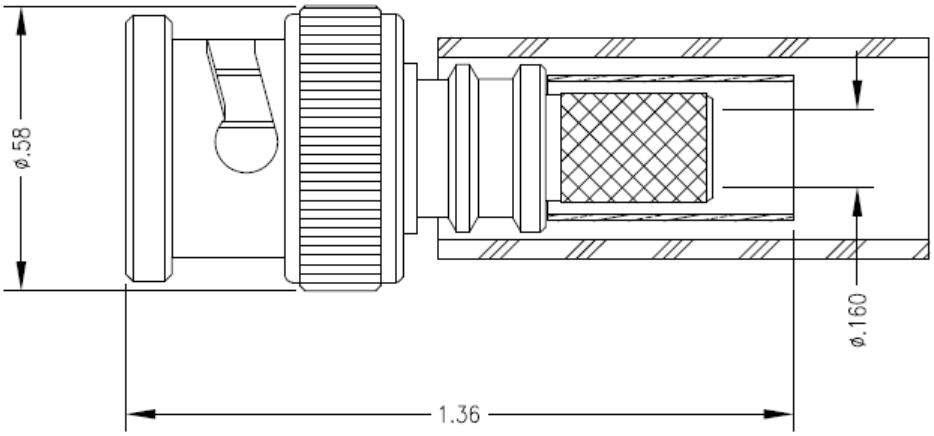
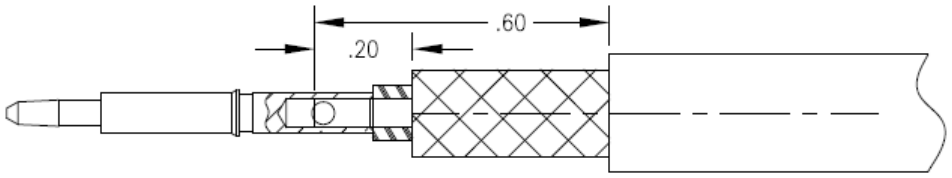
NOTICE OF PROPRIETARY RIGHTS THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA, INCLUDING TRADE SECRETS, PROPRIETARY TO TIMES MICROWAVE SYSTEMS. DISCLOSURE OF THIS DATA IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY. ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF TIMES MICROWAVE SYSTEMS.

SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	N.N.N	9/30/13	J.D.B.	10/11/13
B	CHANGED PER CDC #43314	N.N.N	11/4/15	J.D.B	12/9/15





BODY	CONTACT
ALBALOY	GOLD/NI

1.0 PERFORMANCE
1.1 FREQUENCY RANGE: DC–4 GHz
1.2 NOMINAL IMPEDANCE: 50 OHMS
1.3 DWV: 500 VRMS @ 60 Hz (SEA LEVEL)
1.4 TEMPERATURE RANGE: –65°C TO +165°C

2.0 MATERIALS
2.1 DIELECTRIC: PTFE, REXOLITE
2.2 CONTACT: BRASS
2.3 SPRING WASHER: BERYLLIUM COPPER
2.4 CRIMP FERRULE: SOFT COPPER
2.5 OTHER METAL PARTS: BRASS
2.6 GASKET: SILICONE RUBBER
2.7 HEAT SHRINK: POLYOLEFIN THICK WALL

3.0 FINISHES: SEE TABLE

4.0 MECHANICAL
4.1 INTERFACE PER MIL–STD–348

MATL:

USED ON: C

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES
MACHINED SURFACES FINISH 63 RMS MAX.
REMOVE ALL BURRS .004 MAX. BREAK MACHINE CORNERS .005 MAX. FILLET R.
TOLERANCES ON DECIMALS
.XX ±.01 .XXX ±.005
ANGLES ± 1° FRACTIONS ± 1/64

DFTM. N. N. N
DATE 9/30/13
CHKD. J. D. B.
DATE 10/11/13
APPD. J. D. B.
DATE 10/11/13

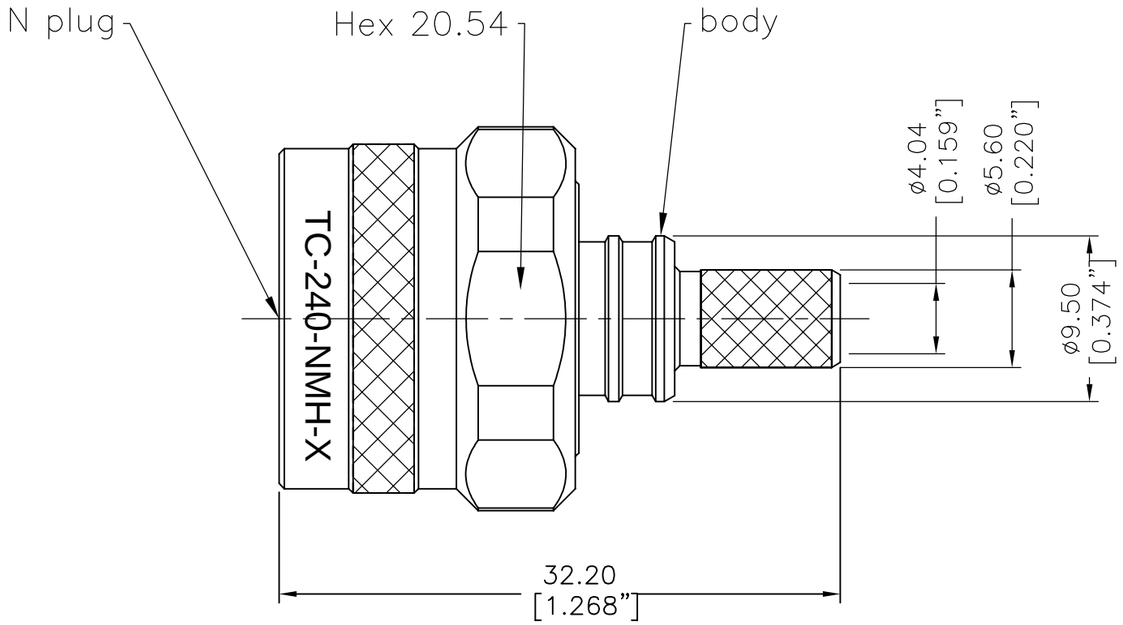
TIMES MICROWAVE SYSTEMS

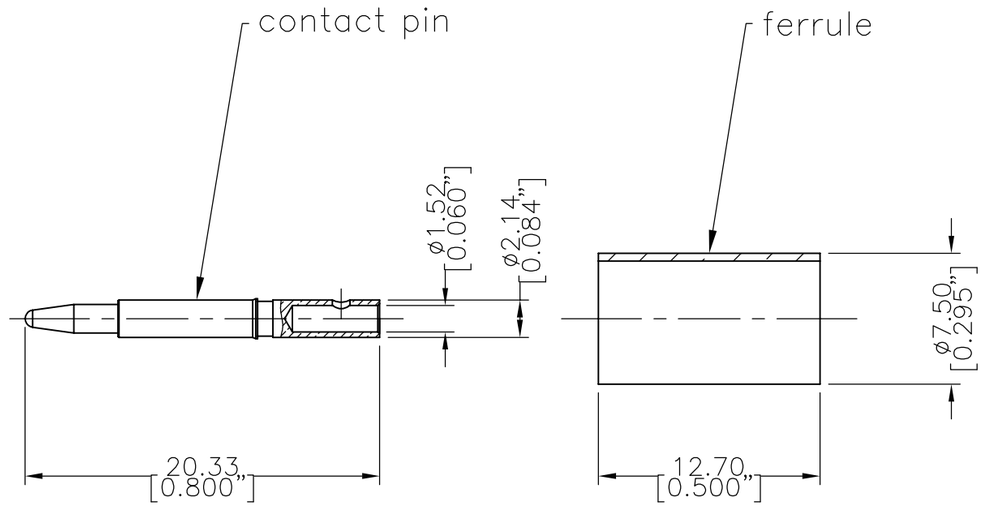
TC-240-BM-X
CONNECTOR ASSEMBLY
BNCM for LMR-240

SCALE: NONE | DWG. SIZE A | DO NOT SCALE DRAWING | CODE IDENT 68999 | SHT. 1 of 1 | SD3190-2890 | REV. B

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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	APPD
A	RELEASED FOR PRODUCTION	Joslen	2017.08.11	TZ	2017.08.11
A1	Change inner pin dimension	Joslen	2017/12/01	TZ	2017/12/01





I. MATERIALS & FINISHES

Components	Materials	Finishes	Thk. (µ")
Body	Brass	Albaloy	80
Center Cont.	Brass	Gold	50
Ferrule	Brass	Albaloy	80
Nut	Brass	Albaloy	80
Insulator	PTFE	--	--
Gaskt	Silicone	--	--

II. ELECTRICAL PROPERTIES

Impedance (Ω):	50
Frequency Range (GHz):	DC to 6 GHz
Working Voltage (V):	2500
Insulation Resistance (MΩ):	≥10000
VSWR:	≤1.30
Insertion Loss(dB, f/GHz):	-0.1x $\sqrt{f}$

III. ENVIRONMENT PROPERTIES

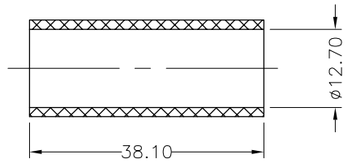
Temperature Range:	-40˚c~+125°c
Thermal Shock:	MIL-STD 202G, Meth.107, Cond.B
Vibration:	MIL-STD 202G, Meth.204, Cond.B
Shock:	MIL-STD 202G, Meth.213, Cond I
Climatic Class:	IEC 60068 55/155/56
(2002/95/EC)RoHS:	Compliant

IV. MECHANICAL PROPERTIES

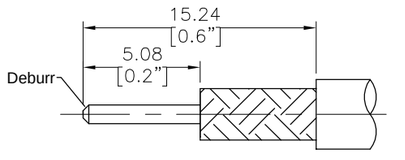
Center Cont.:	Solder
Outer Cont.:	Crimp
Coupling Nut Torque (N.m):	1.7
Cbl-Connector Retention Force (N):	250
Durability (cycles):	500

V. TOOLING

Stripping Tool: 3192-152/CST-240A
Crimping Tool: 3190-667/CT-240/200/100



Shrink Tube (1/2"x1.5" 3:1)



RECOMMENDED CABLE STRIPPING DIM'S
Connector adds: 17.32 mm

According to Standard: IEC 61169-16

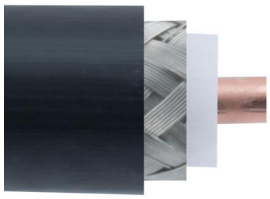
MATL:	UNLESS OTHERWISE SPECIFIED	DFTM.	**Joslen**
	ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH 1.6 RMS MAX. REMOVE ALL BURRS 0.15X45° MAX. BREAK MACHINE CORNERS 0.15X45° D MAX. FILLET R. TOLERANCES ON DECIMALS .X ±0.3 .XX ±0.15 ANGLES ±2° FRACTIONS ± N/A	DATE	**2017/12/01**
		CHKD	**KG**
USED ON: O		DATE	**2017/12/01**
		APPD	**TZ**

TIMES MICROWAVE SYSTEMS
An Amphenol Company

TC-240-NMH-X
Type N Male (Plug) Straight Solder Pin No Braid Trim Connector for LMR-240 Cable

SCALE:	DWG SIZE							
N/A	A4	DO NOT SCALE DRAWING	CODE IDENT	68999	DATE **2017/12/01**	SHT	1 OF 1	**3190-6381**	REV	A1

TCOM-240-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated



TCOM-240-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 84% 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-240 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-240-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 0.240 inch diameter. The maximum passive intermodulation of this low PIM cable is -155 dBc.

Fairview Microwave’s TCOM-240-FR flexible coax cable with a polyethylene jacket is rated for a 18 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 3, 5.3, 7.5, 12, 19, 28, and 40 dB/100ft at frequencies of 150 MHz, 450 MHz, 900 MHz, 2000 MHz, 5000 MHz, 10000 MHz and 18000 MHz respectively.

The TCOM-240 coax cable with foam polyethylene dielectric can operate at temperatures ranging from -40 to +85 deg C. Additional specifications for this TCOM-240-FR RF coaxial cable are on our downloadable PDF datasheet above. Our low PIM coaxial cable has a dielectric withstanding voltage of 1500 Vdc. This low PIM RF cable has a one time minimum bend radius of 0.75 inches and a repeat minimum bend radius of 2.5 inches. Our flexible 50 Ohm coax cable has a peak power rating of 5600 watts.

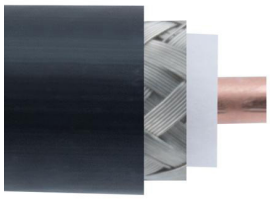
TCOM-240 low PIM RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This TCOM-240 coax cable is ready to buy and can be shipped worldwide. Fairview Microwave also maintains a wide selection of other radio frequency and coaxial cable types 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		18	GHz
Impedance		50		Ohms
Velocity of Propagation		84		%
Time Delay		1.21 [3.97]		ns/ft [ns/m]
Shielding Effectiveness	100			dB

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TCOM-240-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated



TCOM-240-FR

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passive Intermodulation			-155	dBc
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Inner Conductor DC Resistance			3.2	Ohms/1000ft
Outer Conductor DC Resistance			2.06	Ohms/1000ft
Nominal Capacitance		24.2 [79.4]		pF/ft [pF/m]
Nominal Inductance		0.06 [0.2]		uH/ft [uH/m]
Input Power (Peak)			5.6	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.15	0.45	0.9	2	5	GHz
Attenuation, Typ	3	5.3	7.5	12	19	dB/100ft
	9.84	17.39	24.61	39.37	62.34	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	10	18				GHz
Attenuation, Typ	28	40				dB/100ft
	91.86	131.23				dB/100m

Mechanical Specifications

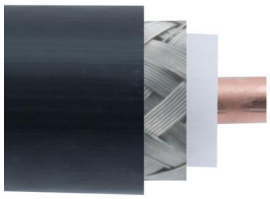
Diameter	0.24 in [6.1 mm}
Weight	0.045 lbs/ft [0.07 kg/m]
Min. Bend Radius (Installation)	0.75 in [19.05 mm]
Min. Bend Radius (Repeated)	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Tensile Strength	80 lbs [36.29 kg]
Flat Plate Crush	20 lbs/in [0.36 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.056 in [1.42 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.15 in [3.81 mm]
First Shield	Silver Plated Copper Braid	0.16 in [4.06 mm]
Second Shield	Tinned Copper Braid	0.188 in [4.78 mm]

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TCOM-240-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated



TCOM-240-FR

Construction Specifications

Description	Material and Plating	Diameter
Jacket	FRPE, Black	0.24 in [6.1 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-240-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-240-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated TCOM-240-FR

URL: https://www.fairviewmicrowave.com/tcom240fr-low-pim-flexible-coax-cable-frpe-jacket-tcom-240-fr-p.aspx

The information contained within 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 impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

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TCOM-240-FR CAD Drawing

TCOM-240-FR Low PIM Flexible Coax Cable Black FRPE Jacket Fire Rated

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