



N Male Right Angle Connector Crimp/Solder Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240

RF Connectors Technical Data Sheet


TC-240-NMH-RA-D

Times Microwave Systems Connector Specification

Configuration

- N Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 50 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

TC-240-NMH-RA-D N male right angle coaxial connector has an interface type of N male LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, and PE-C240 and a 50 Ohms impedance. Pasternack's N male connector uses crimp/solder as an attachment method. Our male N right angle coaxial connector provides a maximum frequency of 6 GHz.

The Pasternack right angle N male coaxial connector has a PTFE dielectric type and a VSWR of 1.3:1. Pasternack's N coaxial connector has a brass body with tri-metal plating. Our TC-240-NMH-RA-D N right angle connector uses a gold plated brass contact. Additional RF connector specs and dimensions for this component can be found on its PDF specification datasheet and CAD drawings above.

The radio frequency connector is made from brass material and has a contact life of 500 cycles or more. Our high-quality TC-240-NMH-RA-D features an 80 µin minimum body plating specification. The Pasternack TC-240-NMH-RA-D N connector operates at a temperature range of -40 to 125 deg C.

This Pasternack right angle male N connector will ship the same business day as purchased. Our N right angle male connector is part of over 40,000 RF, microwave, and millimeter wave components in stock for local, domestic, and international shipment. For further information on similar products, our expert technical support and trained sales team can get you the ideal RF connector as per your requirements.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Insertion Loss			0.24	dB
Impedance		50		Ohms
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
 Insertion Loss is 0.1*SQRT(fGHz) dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle Connector Crimp/Solder Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 TC-240-NMH-RA-D](#)



N Male Right Angle Connector Crimp/Solder Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240

RF Connectors Technical Data Sheet



TC-240-NMH-RA-D

Mechanical Specifications

Size	
Length	1.00 in [25.40 mm]
Width	0.81 in [20.57 mm]
Height	1.24 in [31.50 mm]
Weight	0.10 lbs [45.36 g]
Mating Cycles	500 Cycles
Mating Torque	9 to 14 in-lbs [1.02 to 1.58 Nm]
Cable Retention Force	60 lbs 27.22 kg

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 80 µin minimum
Coupling Nut	Brass	Tri-Metal 80 µin minimum
Gasket	Silicone	
Crimp Sleeve	Brass	Tri-Metal 80 µin minimum

Environmental Specifications

Temperature	
Operating Range	-40 to +125 deg C
Shock	MIL-STD 202G, Meth.213, Cond 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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N Male Right Angle Connector Crimp/Solder Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240

RF Connectors Technical Data Sheet



TC-240-NMH-RA-D

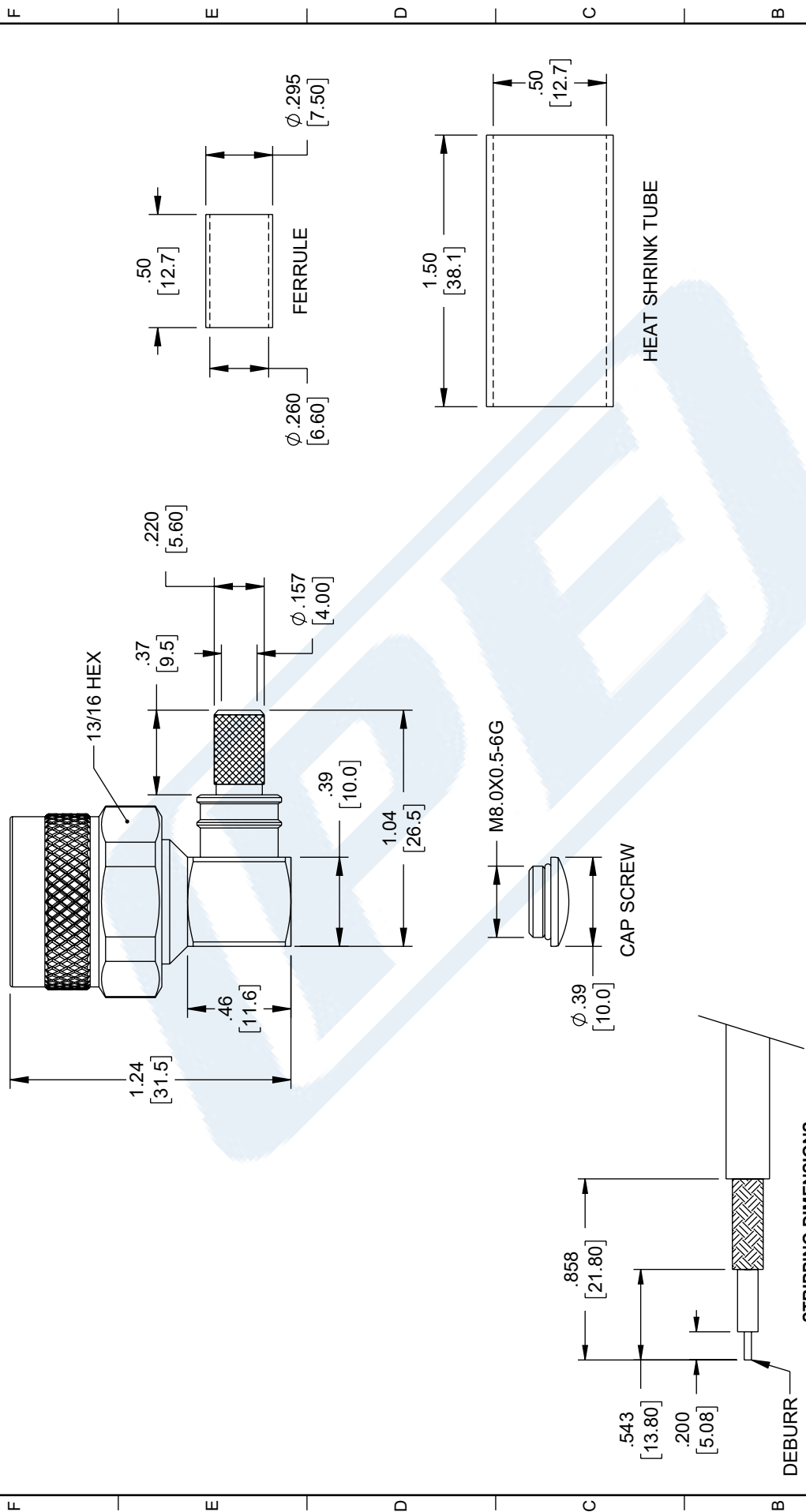
N Male Right Angle Connector Crimp/Solder Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

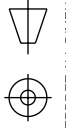
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle Connector Crimp/Solder Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 TC-240-NMH-RA-D](https://www.pasternack.com/n-male-lmr-240-lmr-240-db-connector-tc-240-nmh-ra-d-p.aspx)

URL: <https://www.pasternack.com/n-male-lmr-240-lmr-240-db-connector-tc-240-nmh-ra-d-p.aspx>

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TIMES MICROWAVE SYSTEMS **TC-240-NMH-RA-D CAD Drawing**
N Male Right Angle Connector Crimp/Solder Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		 PASTERNAK an INFINITI [®] brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES: X = ± .2 [5] FRACTIONS XX = ± .02 [5] ± 1/32 XXX = ± .005 [13] ANGLES ± 1°		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE: NONE SHEET: 1 OF 1	
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		DESCRIPTION: N Male Right Angle Connector Crimp/Solder Attachment for LMR-240		ITEM NO.: TC-240-NMH-RA-D REV: A	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE		SIZE: A CAGE CODE: 53919 DRAWN BY: KDANG		REVISION: 1	

NOTES:

- CABLE ATTACHMENT:
OUTER: CRIMP.
- CRIMP SIZE REQUIRED:
FERRULE: .255 [6.48] HEX. CRIMP TOOL.

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SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR- 240-UF, LMR-240-DB, TCOM-240, LMR-240-FR



PE5133

Configuration

- SMA Female Connector
- 50 Ohms
- Connector Interface Types: LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR, LMR-LW240
- Bulkhead

Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE5133, SMA, Connector is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1. This SMA bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SMA female bulkhead connector PE5133 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			1.25:1	
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.04 in [26.42 mm]
Width	0.49 in [12.45 mm]
Height	0.43 in [10.92 mm]
Weight	0.012 lbs [5.44 g]

SMA Female Bulkhead Mount Connector Crimp Attachment
for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-
240-UF, LMR-240-DB, TCOM-240, LMR-240-FR



PE5133

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Brass	Tri-metal
Gasket	Silicone Rubber	
Crimp Sleeve	Brass	Tri-metal

Environmental Specifications

Temperature	
Operating Range	-40 to +155 deg C

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

Plotted and Other Data

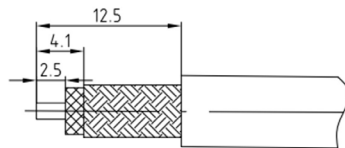
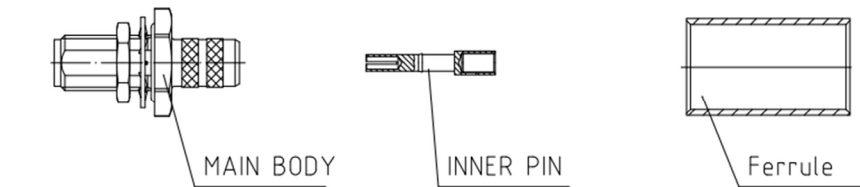
Notes:

SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR- 240-UF, LMR-240-DB, TCOM-240, LMR-240-FR

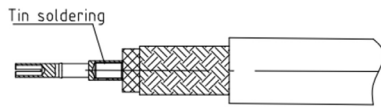


PE5133

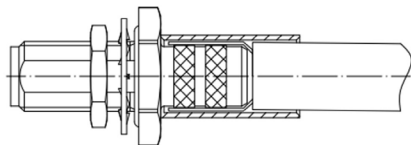
Assembly Instruction



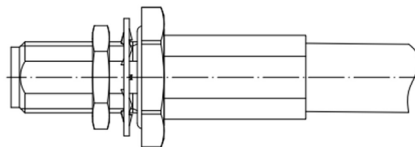
- 1.A. Stripping dimension is as shown by diagram, attention should be paid while stripping.
- B. Remove residual burr.



- 2.A. Solder inner conduct.
- B. Remove residual burr.



- 3.Put the connector in place, Then push the ferrule.



- 4.A. Compression crimping sleeve
- B. Push the heat shrink tube,blow it with heat gun.

SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR



PE5133

SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR 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: [SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR PE5133](https://www.pasternack.com/sma-female-lmr240-rg8x-fr-lmr-240-uf-connector-pe5133-p.aspx)

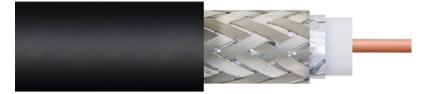
URL: <https://www.pasternack.com/sma-female-lmr240-rg8x-fr-lmr-240-uf-connector-pe5133-p.aspx>

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SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR



Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket



LMR-240-DB



Times Microwave Systems Connector Specification

Configuration

- Low Loss Flexible Cable
- 2 Shield(s)

Features

- Easily Routed
- Low Loss Cable
- RF Shielding > 90dB
- Designed for Outdoor Use
- Watertight

Applications

- Jumper Assemblies
- Short Antenna Feeder Runs
- Wireless Communications

Description

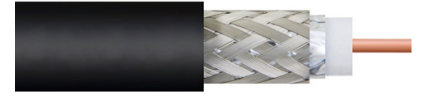
LMR-240-DB part number from Pasternack is a LMR-240-DB coax cable that is flexible. Pasternack LMR-240-DB flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-240-DB coax is constructed with a 0.24 jacket made of PE. LMR-240-DB coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-240-DB coax cable has an attenuation at 1 GHz of 7.66 dB.

Pasternack LMR-240-DB coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-240-DB cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-240-DB or other coax can be built and shipped same day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		84		%
Time Delay		1.21 [3.97]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Inner Conductor DC Resistance			3.2	Ohms/1000ft
Outer Conductor DC Resistance			3.89	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

Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket



LMR-240-DB

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	1.7	3	3.7	5.3	7.6	dB/100ft
	5.58	9.84	12.14	17.39	24.93	dB/100m
Input Power (CW), Max	1,150	660	540	380	260	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	9.9	10.9	11.5	12.9	20.4	dB/100ft
	32.48	35.76	37.73	42.32	66.93	dB/100m
Input Power (CW), Max	200	180	170	150	100	Watts

Electrical Specification Notes:

Values at 25°C, sea level.

Attenuation = $0.242080 \cdot \sqrt{\text{FMHz}} + 0.000330$

Mechanical Specifications

Diameter	0.24 in [6.1 mm]
Weight	0.034 lbs/ft [0.05 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]

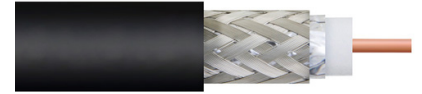
Construction Specifications

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	Aluminum Tape	0.155 in [3.94 mm]
Second Shield	Tinned Copper Braid	0.178 in [4.52 mm]
Jacket	PE, 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

Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket



LMR-240-DB

Environmental Specification Notes:
Designed for indoor and outdoor use.

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

Plotted and Other Data

Notes:

Low Loss Flexible LMR-240-DB Rated 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket LMR-240-DB](#)

URL: <https://www.pasternack.com/low-loss-flexible-lmr240db-pe-jacket-double-shielded-black-lmr-240-db-p.aspx>

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LMR-240-DB CAD Drawing

Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket

