



BNC Male Connector Crimp/Non-Solder Contact
Attachment for LMR-240, LMR-240-DB, LMR-
240-UF, LMR-240-FR, RG8X, PE-C240

RF Connectors
Technical Data Sheet

Times Microwave Systems Connector Specification

Configuration

- BNC Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240

Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50 μ m minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

EZ-240-BM-X BNC male coaxial connector has an interface type of BNC male LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, and PE-C240 and a 50 Ohms impedance. Pasternack's BNC male connector uses crimp/non-solder contact as an attachment method. Our male BNC coaxial connector provides a maximum frequency of 4 GHz.

The Pasternack BNC male coaxial connector has a PTFE dielectric type and a VSWR of 1.3:1. Pasternack's BNC coaxial connector has a brass body with tri-metal plating. Our EZ-240-BM-X BNC connector uses a gold plated beryllium copper 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 EZ-240-BM-X features an 80 μ m minimum body plating specification. The Pasternack EZ-240-BM-X BNC connector operates at a temperature range of -40 to 125 deg C.

This Pasternack male BNC connector will ship the same business day as purchased. Our BNC 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		4	GHz
VSWR			1.3:1	
Insertion Loss			0.2	dB
Impedance		50		Ohms
Dielectric Withstanding Voltage (DC)			750	Vdc
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Insertion Loss is $0.1 \cdot \sqrt{\text{fGHz}}$ dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 EZ-240-BM-X](#)



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Mechanical Specifications

Size	
Length	1.23 in [31.22 mm]
Width	0.57 in [14.50 mm]
Height	0.57 in [14.50 mm]
Weight	0.10 lbs [45.36 g]
Mating Cycles	500 Cycles
Cable Retention Force	250 lbs 113.4 kg

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 µin minimum
Insulation	PTFE	
Body	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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BNC Male Connector Crimp/Non-Solder Contact
Attachment for LMR-240, LMR-240-DB, LMR-
240-UF, LMR-240-FR, RG8X, PE-C240

RF Connectors
Technical Data Sheet

BNC Male Connector Crimp/Non-Solder Contact 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.

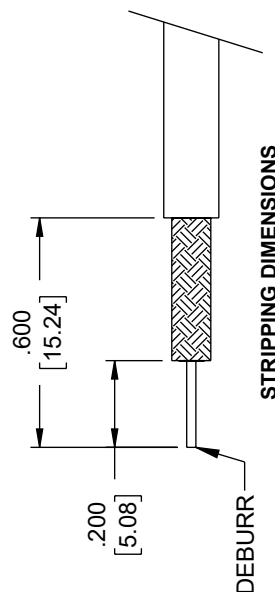
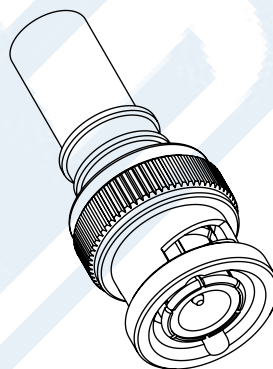
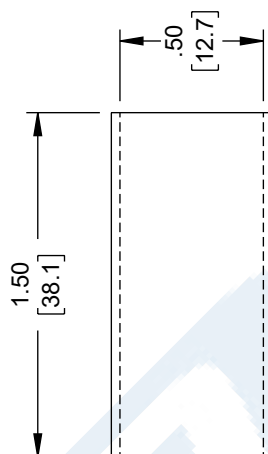
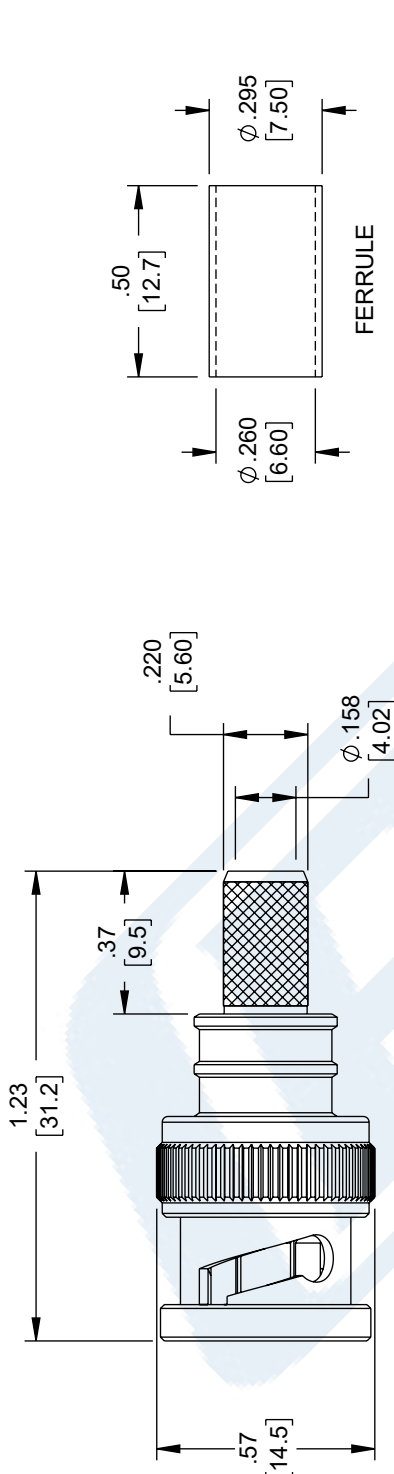
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EZ-240-BM-X CAD Drawing

BNC Male Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240



NOTES:

1. CABLE ATTACHMENT:
• OUTER: CRIMP.
• INNER CONTACT: CAPTIVE.
2. CRIMP SIZE REQUIRED:
• FERRULE: .255 [6.48] HEX. CRIMP TOOL.

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UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ± .2 [5] FRACTIONS
.XX = ± .02 [.5] ± 1/32
XXX = ± .005 [.13] ANGLES ± 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

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE



Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

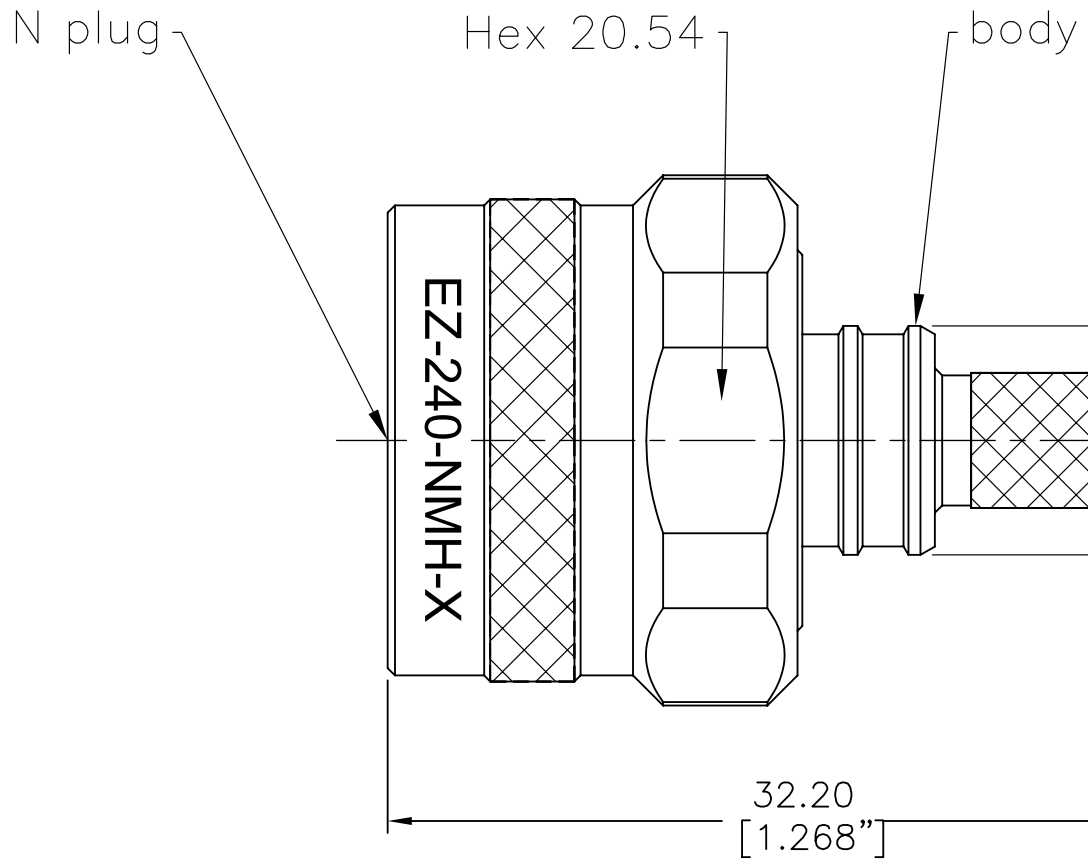
DESCRIPTION

BNC Male (plug) crimp connector (non-solder pin), no braid trim

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5
SCALE NONE SHEET 1 OF 1

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KDANG	EZ-240-BM-X	B

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	B	ECO-12894	11/6/2023	KDANG	AGANWANI



I. MATERIALS & FINISHES

Components	Materials	Finishes	Thk. (μ")
Body	Brass	Albaloy	80
Center Cont.	QBe2	Gold	50
Ferrule	Brass	Albaloy	80
Nut	Brass	Albaloy	80
Insulator	PTFE	--	--
Gasket	Silicone	--	--

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

V. TOOLING

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

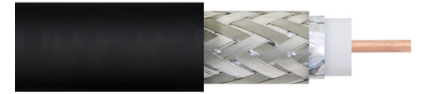
II. ELECTRICAL PROPERTIES

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 √f

IV. MECHANICAL PROPERTIES

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

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



LMR-240



Times Microwave Systems Connector Specification

Configuration

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

Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 84% VoP

Applications

- General Purpose RF Interconnect
- Laboratory Applications

Description

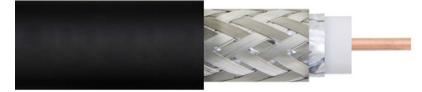
LMR-240 part number from Pasternack is a LMR-240 coax cable that is flexible. Pasternack LMR-240 flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-240 coax is constructed with a 0.24 jacket made of PE. LMR-240 coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency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

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Cutoff Frequency		31		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 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-240

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

Mechanical Specifications

Diameter	0.24 in [6.1 mm]
Weight	0.033 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	
Second Shield	Tinned Copper Braid	
Jacket	PE, Black	0.24 in [6.1 mm]

Environmental Specifications

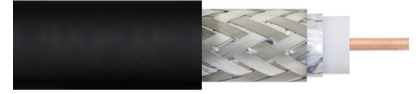
Temperature	
Operating Range	-40 to 85 deg C
Storage Range	-70 to 85 deg C

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

Plotted and Other Data

Notes:

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



LMR-240

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