

BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100



RF Connectors Technical Data Sheet

PE45045

Configuration

- BNC Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry

- .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 Interface Type
- Crimp/Crimp Attachment

Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.25:1

- Gold Plated Brass Contact
- 50 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45045 BNC male connector with crimp/crimp attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100 and PE-B100 is part of our full line of RF components available for same-day shipping. Our BNC male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.25:1.

Our BNC male connector PE45045 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		3	GHz
VSWR			1.25:1	
Operating Voltage (AC)			335	Vrms

Mechanical Specifications

Size

- Length
- Width/Dia.
- Weight

- 0.99 in [25.15 mm]
- 0.57 in [14.48 mm]
- 0.027 lbs [12.25 g]

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/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 PE45045](#)



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RF Connectors Technical Data Sheet

PE45045

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 μ in minimum
Insulation	PTFE	
Body	Brass	Nickel 100 μ in minimum
Coupling Nut	Brass	Nickel 100 μ in minimum
Gasket	Silicone Rubber	

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

Assembly Instruction

BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 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.

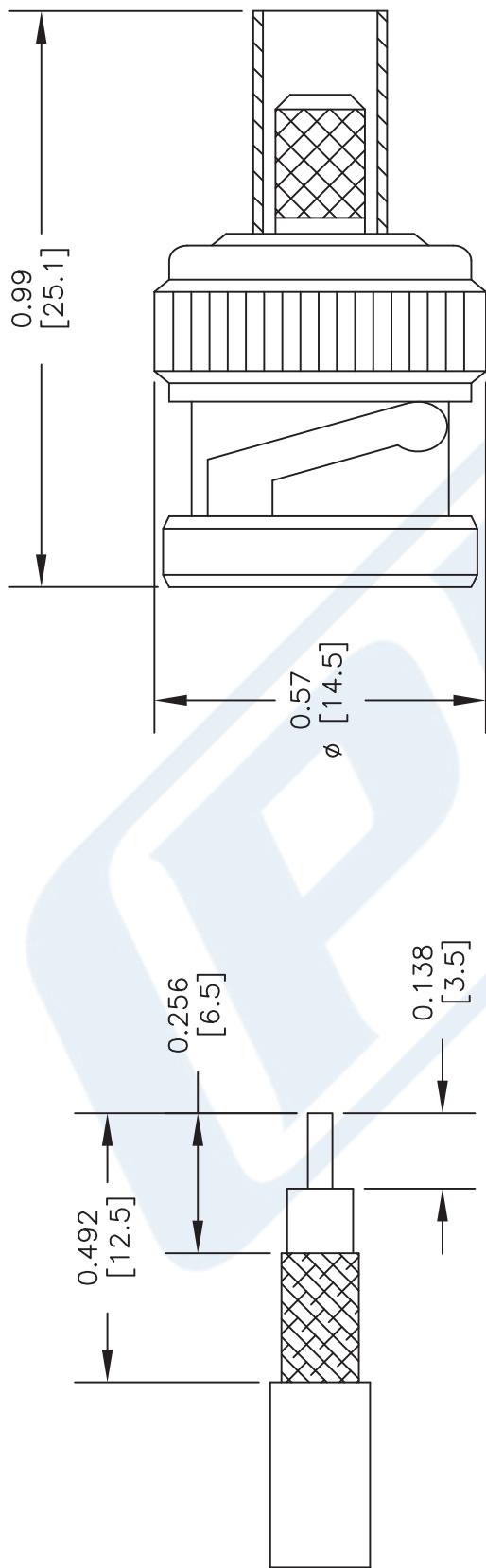
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URL: <https://www.pasternack.com/bnc-male-.100-rg316-rg188-lmr-100-lmr-100-connector-pe45045-p.aspx>

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PE45045 CAD Drawing

BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174,
RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100



NOTES:
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3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE	PE45045	CAGE CODE	53919	CAD FILE	021617	SCALE	N/A	SIZE	A	2233
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PASTERNACK®
THE ENGINEER'S RF SOURCE

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BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100



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- 50 Ohms
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BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100

RF Connectors Technical Data Sheet

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Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

Assembly Instruction

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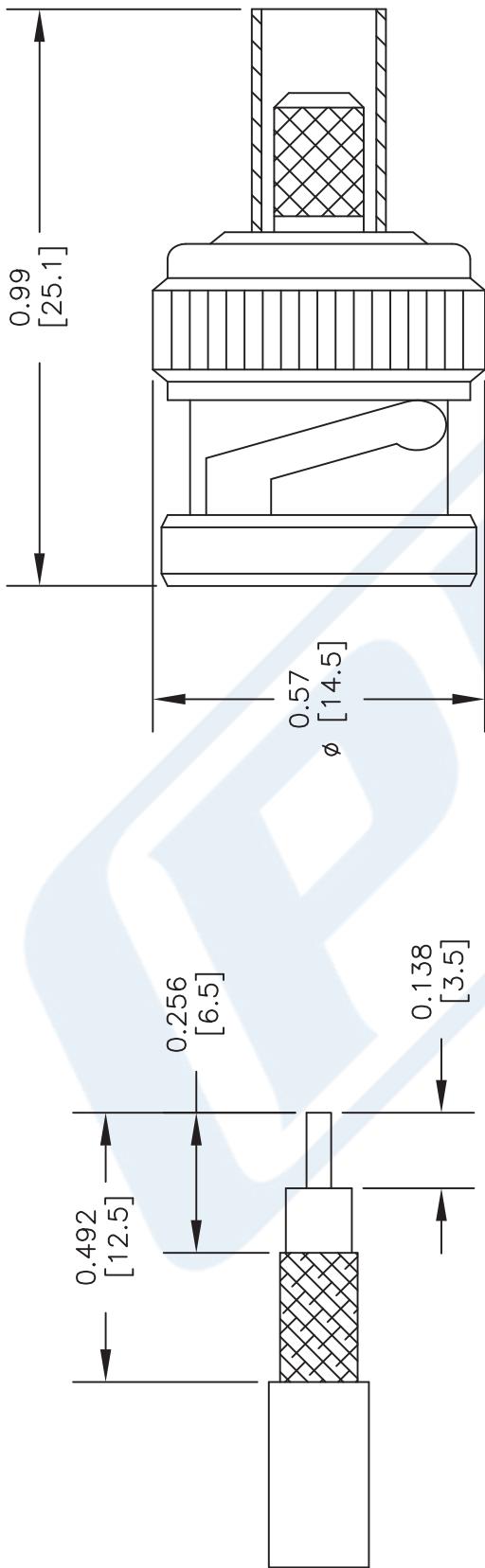
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PE45045 CAD Drawing

BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174,
RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100



CONTACT: 0.042" SQ. CRIMP TOOL
FERRULE: 0.138" HEX. CRIMP TOOL

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DWG TITLE	PE45045	CAGE CODE	53919	CAD FILE	021617	SCALE	N/A	SIZE	A	2233
PASTERNAK® THE ENGINEER'S RF SOURCE	Pasternak Enterprises, Inc. P.O. Box 16759 Irvine CA 92623 Phone: (949) 261-1920 Fax: (949) 261-7451 Website: www.pasternak.com E-Mail: sales@pasternak.com									



LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax

RF Cables Technical Data Sheet


LMR-100A-UF

Times Microwave Systems Coax Cable Specification

Configuration

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

Features

- Ultra Flexible Coax with Stranded Center Conductor
- Max Operating Frequency of 5.8 GHz
- Phase Velocity 66% VoP
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 0.25 inches

Applications

- RF Test Systems
- Antenna Installs
- Laboratory Applications
- General Purpose RF Interconnect
- Jumper Assemblies

Description

LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-100-UF coax cable is manufactured in an ultra flexible design and has a 50 Ohm impedance. This low loss and ultra flexible 50 Ohm coax cable LMR-100-UF is constructed with a 0.110 inch diameter and Black TPE jacket.

LMR-100-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.110 inch diameter and low loss ultra flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-100-UF TPE coax is constructed with PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-100-UF coax cable provides specs for this wire on its RF coax cable LMR-100-UF datasheet.

LMR-100-UF cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-100-UF coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Impedance	50			Ohms
Velocity of Propagation	66			%
Time Delay	1.54	5.05		ns/ft ns/m
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			500	Vdc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax LMR-100A-UF](#)



LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax

RF Cables Technical Data Sheet


LMR-100A-UF

Jacket Spark	2,000	Vrms
Inner Conductor DC Resistance	81	Ohms/1000ft
Outer Conductor DC Resistance	9.5	Ohms/1000ft
Nominal Capacitance	30.8 [101.05]	pF/ft [pF/m]
Nominal Inductance	0.077 [0.25]	uH/ft [uH/m]
Input Power (Peak)	600	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	5.1	8.9	10.9	15.8	22.8	dB/100ft
	16.73	29.2	35.76	51.84	74.8	dB/100m
Input Power (CW), Max	180	100	83	57	39	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	30.1	33.2	35.2	39.8	64.1	dB/100ft
	98.75	108.92	115.49	130.58	210.3	dB/100m
Input Power (CW), Max	29	27	25	22	13	Watts

Mechanical Specifications

Diameter	0.11 in [2.79 mm]
Weight	0.0092 lbs/ft [0.01 Kg/m]
Min. Bend Radius (Installation)	0.25 in [6.35 mm]
Min. Bend Radius (Repeated)	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Tensile Strength	15 lbs [6.8 kg]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.018 in [0.46 mm]

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LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax

RF Cables Technical Data Sheet


LMR-100A-UF

Conductor Type	Solid	
Dielectric	PE	0.06 in [1.52 mm]
First Shield	Aluminum Tape	[]
Second Shield	Tinned Copper	[]
Jacket	TPE, Black	0.11 in [2.79 mm]

Environmental Specifications

Temperature

Operating Range
Installation Range
Storage Range

-40 to +85 deg C
-40 to +85 deg C
-70 to +85 deg C

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

Plotted and Other Data

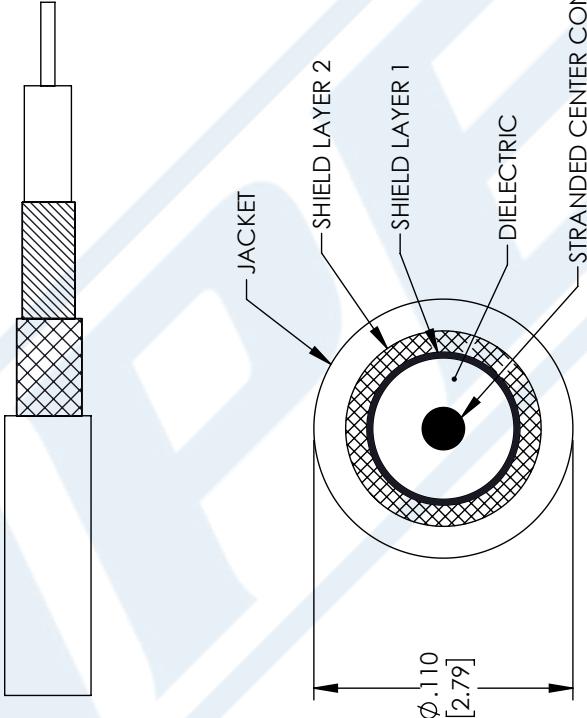
Notes:

LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax 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-loss-flexible-lmr-100a-uf-tpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-100a-uf-p.aspx>

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REV. A DESCRIPTION INITIAL RELEASE 06-04-2021 APPROVED SELLIS														
REVISIONS														
														
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<div style="border: 1px solid black; padding: 5px; display: inline-block;"> UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS </div> <div style="display: inline-block; vertical-align: top; text-align: left; margin-left: 10px;"> TOLERANCES: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">$X = \pm .2$</td> <td style="width: 30%;">$[5.08]$</td> <td style="width: 40%; text-align: center;">FRACTIONS $\pm 1/32$</td> </tr> <tr> <td>$.XX = \pm .02$</td> <td>$[.51]$</td> <td style="text-align: center;">ANGLES $\pm 1^\circ$</td> </tr> <tr> <td>$XXX = \pm .005$</td> <td>$[.13]$</td> <td style="text-align: center;">CABLE LENGTH (L) TOLERANCES: $L \le 12$ [305] $= +1[28] / -0$ $12 [305] < L \le 60$ [1524] $= +2[51] / -0$ $60 [1524] < L \le 120$ [3048] $= +4[102] / -0$ $120 [3048] < L \le 300$ [7620] $= +6[152] / -0$ $300 [7620] < L \le +58L$ [0] $= +58L / -0$ </td> </tr> </table> </div> <div style="display: inline-block; vertical-align: top; text-align: right; margin-right: 10px;"> ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. </div> <div style="display: inline-block; vertical-align: top; text-align: right;"> Pasterнак Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasterнак.com E-mail: sales@pasterнак.com </div> <div style="display: inline-block; vertical-align: top; text-align: right;"> ITEM NO. LMR-100A-UF DRAWN BY MVEERAPPAN SIZE A CAGE CODE 53919 REV A </div>						$X = \pm .2$	$[5.08]$	FRACTIONS $\pm 1/32$	$.XX = \pm .02$	$[.51]$	ANGLES $\pm 1^\circ$	$XXX = \pm .005$	$[.13]$	CABLE LENGTH (L) TOLERANCES: $L \le 12$ [305] $= +1[28] / -0$ $12 [305] < L \le 60$ [1524] $= +2[51] / -0$ $60 [1524] < L \le 120$ [3048] $= +4[102] / -0$ $120 [3048] < L \le 300$ [7620] $= +6[152] / -0$ $300 [7620] < L \le +58L$ [0] $= +58L / -0$
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