



UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB, PE-C600

RF Connectors Technical Data Sheet



EZ-600-UM-X

Times Microwave Systems Connector Specification

Configuration

- UHF Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-600, LMR-600-DB, PE-C600

Features

- Max. Operating Frequency 3 GHz
- Silver Plated Phosphor Bronze Contact
- 200µin contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Times Microwave's EZ-600-UM-X UHF male connector with crimp/non-solder contact attachment for LMR-600 is part of our full line of RF components available for same-day shipping. Times Microwave's UHF male connector operates up to a maximum frequency of 3 GHz.

Times Microwave's UHF male connector EZ-600-UM-X 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 |
| Insertion Loss | | | 0.17 | dB |
| Impedance | | 50 | | Ohms |
| Dielectric Withstanding Voltage (AC) | | | 2,000 | Vrms |
| Insulation Resistance | 10,000 | | | MOhms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------|------------|----|----|----|----|-------|
| Frequency Range | DC to 2.45 | | | | | GHz |
| VSWR, Max | 1.3:1 | | | | | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB, PE-C600 EZ-600-UM-X](#)



UHF Male Connector Crimp/Non-Solder Contact
Attachment for LMR-600, LMR-600-DB, PE-C600

RF Connectors
Technical Data Sheet

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 2.54 in [64.52 mm] |
| Width | 0.69 in [17.50 mm] |
| Height | 0.69 in [17.50 mm] |
| Weight | 0.01 lbs [5.39 g] |

Material Specifications

| Description | Material | Plating |
|--------------|-----------------|----------------------|
| Contact | Phosphor Bronze | Silver 200µin |
| Insulation | PTFE | |
| Body | Brass | Tin/Nickel 100µin |
| Coupling Nut | Brass | Tin/Nickel 100µin |
| Crimp Sleeve | Copper | Tin/Nickel 100µin |

Environmental Specifications

Temperature

| | |
|-----------------|---------------------------------|
| Operating Range | -40 to 125 deg C |
| Shock | MIL-STD-202, Meth. 213, Cond. G |
| Vibration | MIL-STD-202, Meth. 204, Cond. B |
| Thermal Shock | MIL-STD-202, Meth. 107, Cond. B |

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB, PE-C600 EZ-600-UM-X](#)



UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB, PE-C600

RF Connectors Technical Data Sheet



EZ-600-UM-X

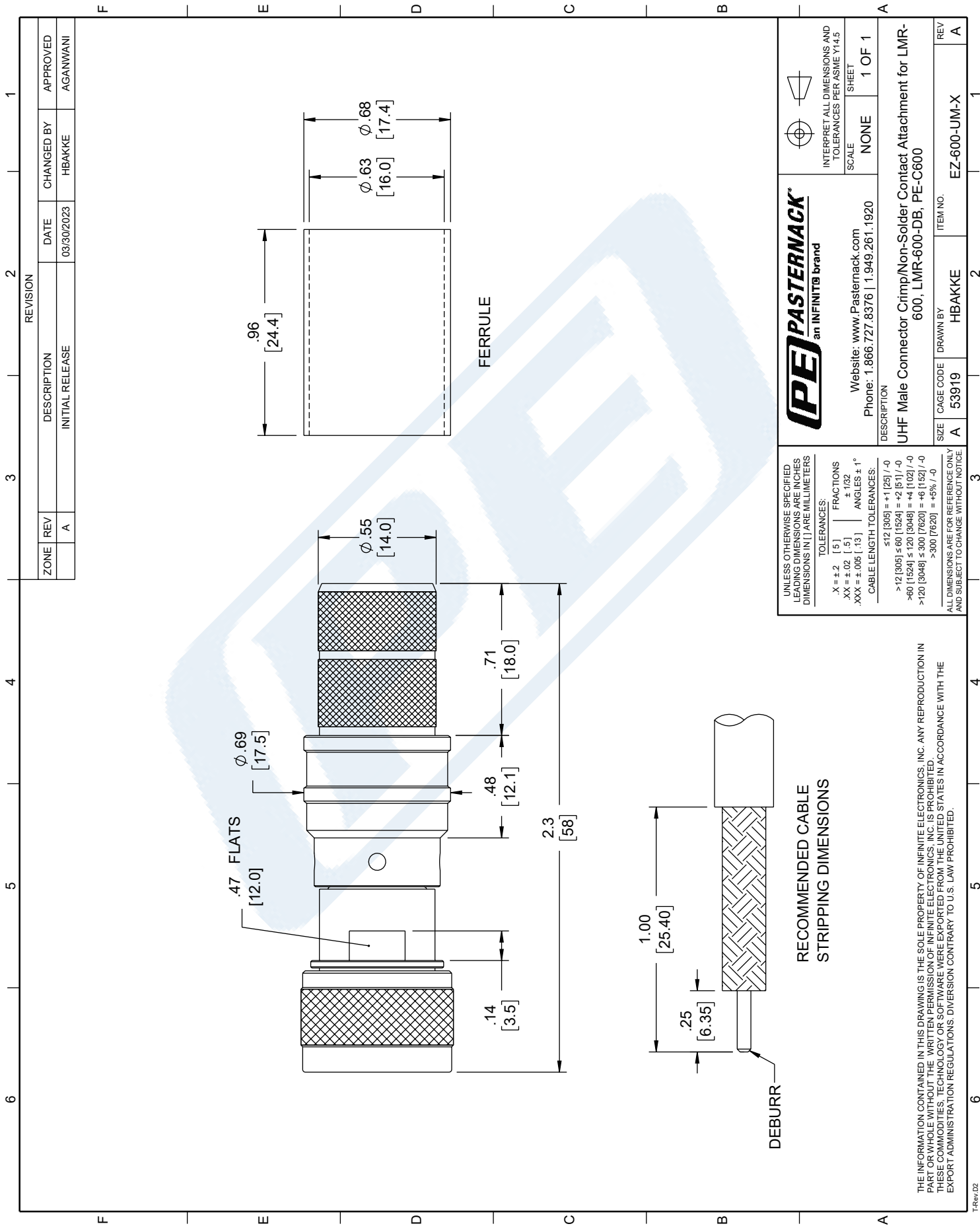
UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB, PE-C600 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB, PE-C600 EZ-600-UM-X](https://www.pasternack.com/uhf-male-lmr-600-pe-c600-connector-ez-600-um-x-p.aspx)

URL: <https://www.pasternack.com/uhf-male-lmr-600-pe-c600-connector-ez-600-um-x-p.aspx>

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

TIMES MICROWAVE SYSTEMS **EZ-600-UM-X CAD Drawing**
 UHF Male Connector Crimp/Non-Solder Contact Attachment
 for LMR-600, LMR-600-DB, PE-C600



| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| | A | INITIAL RELEASE | 03/30/2023 | HBAKKE | AGANWANI |

PE PASTERNAK
 an INFINITI[®] brand

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

DESCRIPTION: UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB, PE-C600

SIZE: A CAGE CODE: A 53919 DRAWN BY: HBAKKE ITEM NO.: EZ-600-UM-X REV: A

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:

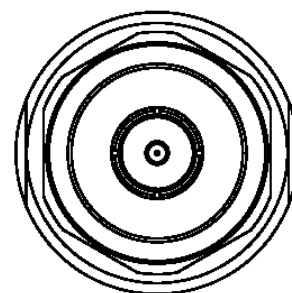
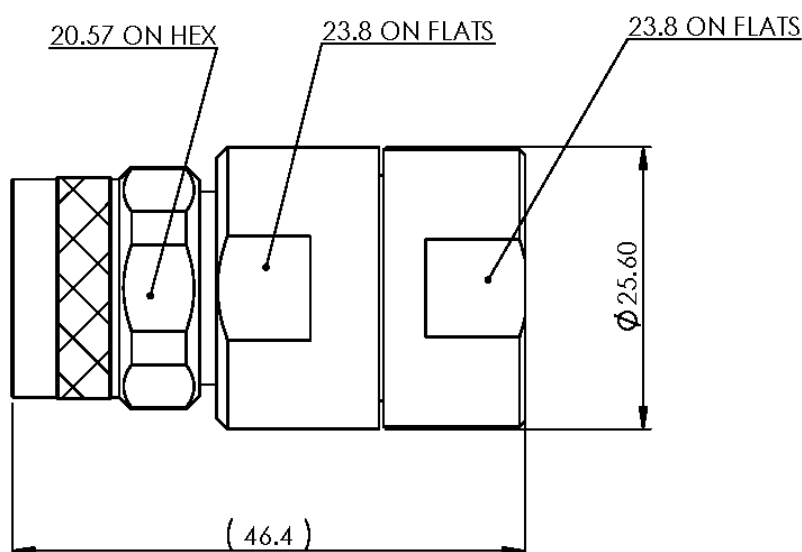
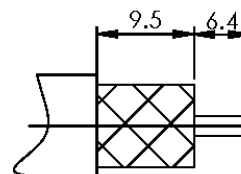
| | |
|---------------------------|-----------------|
| ≤ 12 [305] | ± .1 [25] / -0 |
| > 12 [305] ≤ 60 [1524] | ± .2 [51] / -0 |
| > 60 [1524] ≤ 120 [3048] | ± .4 [102] / -0 |
| > 120 [3048] ≤ 300 [7620] | ± .6 [152] / -0 |
| > 300 [7620] | ± .5% / -0 |

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

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

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 | K.A.M. | 5/20/11 | J.D.B. | 6/9/11 |



Reference standard IEC60169-16

I. Electric Performance

| | |
|--------------------------------------|--|
| Nominal Impedance(Ω): | 50 |
| Frequency Range: | DC-6GHz |
| VSWR: | ≤ 1.35 |
| Insert Loss: | ≤ 0.10 (0-3G) |
| Insulation resistance ($M\Omega$): | > 5000 |
| Proof voltage (V) | 2500 |
| Conductor resistance ($m\Omega$): | outer conductor < 0.4 inner conductor < 0.8 |

II. Mechanical Performance

| | |
|------------------------------|------|
| Whorl pull | 500N |
| Nut torque | 5N.m |
| Tensile force(cable-connect) | 300N |
| Torsion(cable-connect) | 3N.m |

II. Material and plating :

| Component | Material | Plating |
|-----------------|------------------|---------------------------|
| inner conductor | Beryllium copper | Au $>1.27\mu m$ |
| outer conductor | Brass | Copper-tin-zinc $>2\mu m$ |
| insulator | PTFE | |
| nut | Brass | Copper-tin-zinc $>2\mu m$ |

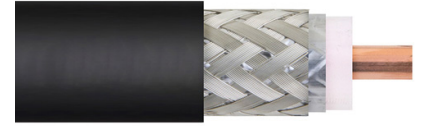
III. Environment

| | |
|------------------|--------------------------------|
| Temp.range | -55℃~+155℃ |
| 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 |
| Weather standard | IEC 68 55 /155/ 56 |
| ROHS compliant | |

V. Assemble: inner and outer conductor installed

| | | | | | | | | |
|----------|-------------|----------------------------|------------|-------|----------------|---|-------------|-------|
| MATL: | | UNLESS OTHERWISE SPECIFIED | | | DFTM. K. A. M. | TIMES MICROWAVE SYSTEMS | | |
| | | ALL DIMENSIONS ARE IN mm | | | DATE 5/20/11 | | | |
| USED ON: | | | | | CHKD. J. D. B. | CONNECTOR, NM FOR LMR-600 (EZ-600-NMC-2-D) | | |
| | | | | | DATE 6/9/11 | | | |
| | | | | | APPD. J. D. B. | | | |
| SCALE: ~ | DWG. SIZE A | DO NOT SCALE DRAWING | CODE IDENT | 68999 | DATE 6/9/11 | SHEET 1 of 1 | SD3190-2641 | REV A |

Low Loss Flexible LMR-600-DB Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-600-DB



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 87% VoP

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

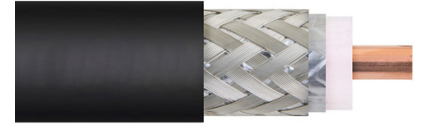
LMR-600-DB part number from Pasternack is a LMR-600-DB coax cable that is flexible. Pasternack LMR-600-DB flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-600-DB coax is constructed with a 0.59 jacket made of PE. LMR-600-DB coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-600-DB coax cable has an attenuation at 1 GHz of 2.62 dB.

Pasternack LMR-600-DB coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-600-DB cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-600-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 |
| Cutoff Frequency | | 10.3 | | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 87 | | % |
| Time Delay | | 1.17 [3.84] | | ns/ft [ns/m] |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 4,000 | Vdc |
| Jacket Spark | | | 8,000 | Vrms |
| Inner Conductor DC Resistance | | | 0.53 | Ohms/1000ft |
| Outer Conductor DC Resistance | | | 1.2 | 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 |

Low Loss Flexible LMR-600-DB Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-600-DB

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|-----|----------|
| Frequency | 50 | 150 | 220 | 450 | 900 | MHz |
| Attenuation, Typ | 0.5 | 1 | 1.2 | 1.7 | 2.5 | dB/100ft |
| | 1.64 | 3.28 | 3.94 | 5.58 | 8.2 | dB/100m |
| Input Power (CW), Max | 4,240 | 2,410 | 1,970 | 1,350 | 930 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|-----------------------|-------|-------|------|-------|-------|----------|
| Frequency | 1.5 | 1.8 | 2 | 2.5 | 5.8 | GHz |
| Attenuation, Typ | 3.3 | 3.7 | 3.9 | 4.4 | 7.3 | dB/100ft |
| | 10.83 | 12.14 | 12.8 | 14.44 | 23.95 | dB/100m |
| Input Power (CW), Max | 700 | 630 | 590 | 520 | 320 | Watts |

Mechanical Specifications

| | |
|---------------------------------|-------------------------|
| Diameter | 0.59 in [14.99 mm] |
| Weight | 0.136 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 Strand | 0.176 in [4.47 mm] |
| Conductor Type | Solid | |
| Dielectric | PE (F) | 0.455 in [11.56 mm] |
| First Shield | Aluminum Tape | |
| Second Shield | Tinned Copper Braid | |
| Jacket | PE, Black | 0.59 in [14.99 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-600-DB Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-600-DB

Low Loss Flexible LMR-600-DB Outdoor 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-600-DB Outdoor Rated Coax Cable Double Shielded with Black PE Jacket LMR-600-DB](#)

URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-pe-jacket-double-shielded-lmr-600-db-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 implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

Low Loss Flexible LMR-600-DB Outdoor Rated Coax Cable Double Shielded with Black PE Jacket

