



7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB

RF Connectors Technical Data Sheet

PE45640

Configuration

- 7/16 DIN Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: PE-C600, .600 inch, LMR-600, LMR-600-DB
- 1 1/4 in. Hex

Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.15:1
- Silver Plated Brass Contact
- 3µ m minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45640 7/16 DIN male right angle connector with crimp/solder attachment for PE-C600, .600 inch, LMR-600 and LMR-600-DB is part of our full line of RF components available for same-day shipping. Our 7/16 DIN male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.15:1. Its right angle body geometry allows for easier connections in tight spaces.

Our 7/16 DIN male right angle connector PE45640 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 | | | 1.15:1 | |
| Insertion Loss | | | 0.05 | dB |
| Dielectric Withstanding Voltage (AC) | | | 4,000 | Vrms |

Mechanical Specifications

| | |
|---------------|-----------------------|
| Weight | 0.282 lbs [127.91 g] |
| Mating Torque | 221 in-lbs [24.97 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB PE45640](#)



7/16 DIN Male Right Angle Connector Crimp/Solder
Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB

RF Connectors
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PE45640

Material Specifications

| Description | Material | Plating |
|-----------------|----------|---------------------------|
| Contact | Brass | Silver 3μ m minimum |
| Insulation | PTFE | |
| Outer Conductor | Brass | Tri-Metal 3μ m minimum |
| Body | Brass | Tri-Metal 3μ m minimum |
| Coupling Nut | Brass | Tri-Metal 3μ m minimum |

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Shock

MIL-STD 202,Meth.213, Cond. I

Vibration

MIL-STD 202,Meth.204, Cond. B

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

Plotted and Other Data

Notes:

7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB 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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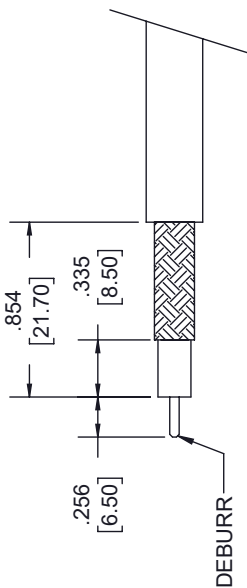
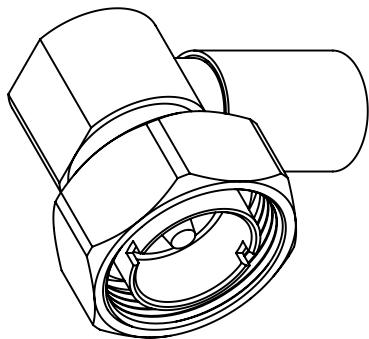
URL: <https://www.pasternack.com/7-16-din-male-pe-c600-.600-connector-pe45640-p.aspx>

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PE45640 CAD Drawing

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for PE-C600, .600 inch, LMR-600, LMR-600-DB

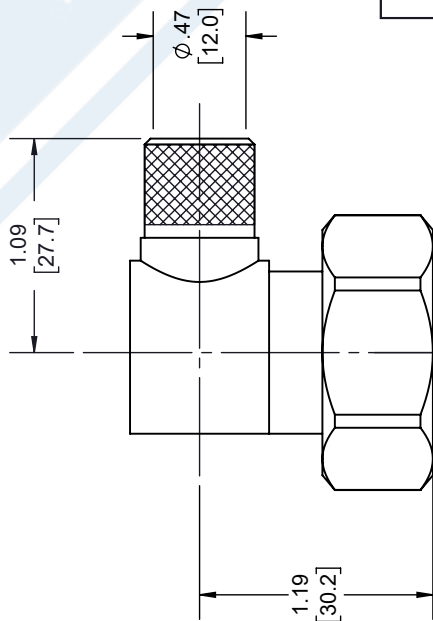
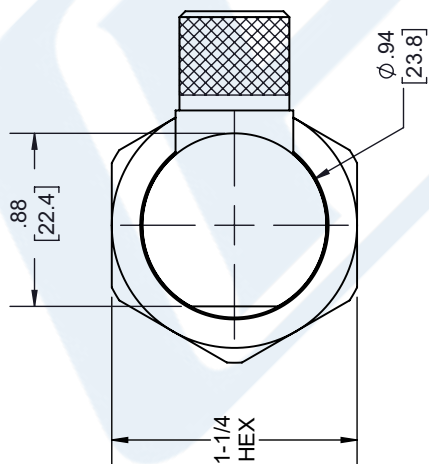
| REVISIONS | | | |
|-----------|-------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| B | PCR PE45640 | 2/3/2021 | S. ELLIS |



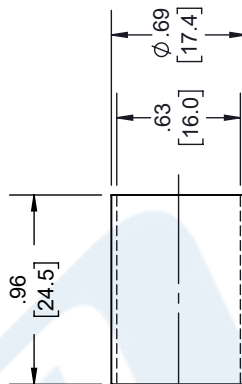
STRIPPING DIMENSIONS

NOTES:

- CABLE ATTACHMENT:
 - OUTER: CRIMP.
 - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
 - FERRULE: .610 [15.49] HEX. CRIMP TOOL.
 - CONTACT: SOLDER.



7/16 DIN MALE



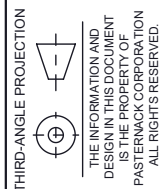
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| 300 [7620] < L | = +5% / -0 |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | |



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SHEET 1 OF 1

SCALE N/A

REV A

ITEM NO. PE45640

DRAWN BY K.DANG

CAGE CODE 53919

SIZE A



7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB

RF Connectors Technical Data Sheet

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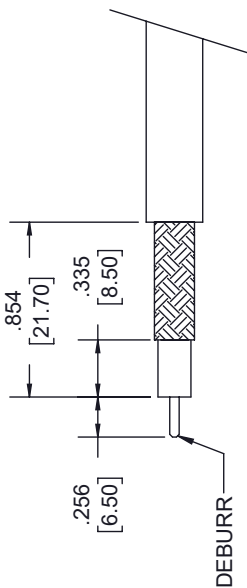
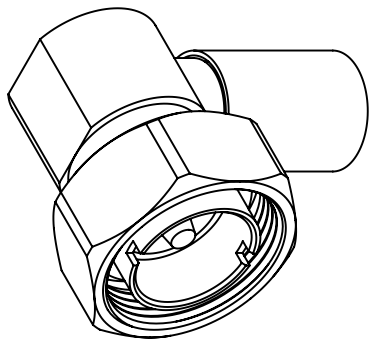
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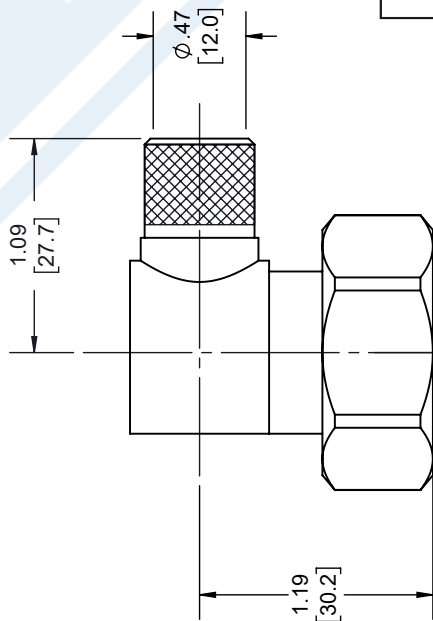
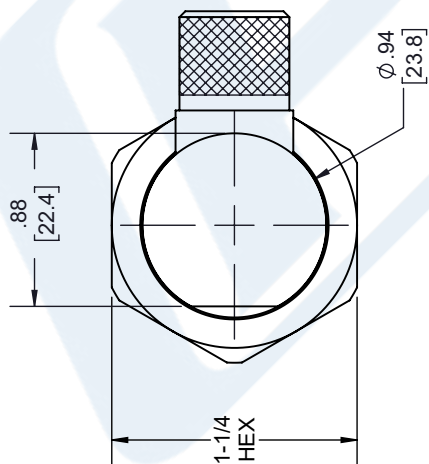
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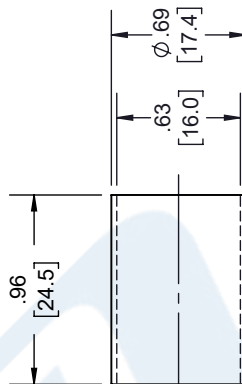
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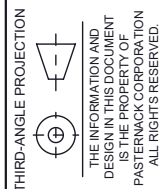
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SHEET 1 OF 1

SCALE N/A

REV A

ITEM NO. PE45640

DRAWN BY K.DANG

CAGE CODE 53919

SIZE A



Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex

RF Cables Technical Data Sheet



LMR-600-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 87% VoP
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 1.5 inches

Applications

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

Description

LMR-600-UF Ultra Flex version of the 600 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-600-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-600-UF is constructed with a 0.590 inch diameter and Black TPE jacket.

LMR-600-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.590 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-600-UF TPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-600-UF coax cable provides specs for this wire on its RF coax cable LMR-600-UF datasheet.

LMR-600-UF cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-600-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 | | 87 | | % |
| Time Delay | | 1.17 3.84 | | ns/ft ns/m |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 4,000 | Vdc |

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-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex LMR-600-UF](#)



Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex

RF Cables Technical Data Sheet



LMR-600-UF

| | | |
|-------------------------------|--------------|--------------|
| Jacket Spark | 8,000 | Vrms |
| Inner Conductor DC Resistance | 0.43 | 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 |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|------|----------|
| Frequency | 50 | 150 | 220 | 450 | 900 | MHz |
| Attenuation, Typ | 0.7 | 1.2 | 1.4 | 2.1 | 3 | dB/100ft |
| | 2.3 | 3.94 | 4.59 | 6.89 | 9.84 | dB/100m |
| Input Power (CW), Max | 3,530 | 2,000 | 1,640 | 1,120 | 770 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|-----------------------|-------|-------|-------|-------|-------|----------|
| Frequency | 1.5 | 1.8 | 2 | 2.5 | 5.8 | GHz |
| Attenuation, Typ | 4 | 4.4 | 4.7 | 5.3 | 8.7 | dB/100ft |
| | 13.12 | 14.44 | 15.42 | 17.39 | 28.54 | dB/100m |
| Input Power (CW), Max | 580 | 520 | 490 | 430 | 260 | Watts |

Mechanical Specifications

| | |
|---------------------------------|--------------------------|
| Diameter | 0.59 in 14.99 mm |
| Weight | 0.165 lbs/ft [0.25 Kg/m] |
| Min. Bend Radius (Installation) | 1.5 in [38.1 mm] |
| Min. Bend Radius (Repeated) | 6 in [152.4 mm] |
| Bending Moment | 1.75 lbs-ft [2.37 N-m] |
| Tensile Strength | 350 lbs [158.76 kg] |
| Flat Plate Crush | 40 lbs/in [0.71 Kg/mm] |

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, 1 Strand | 0.176 in [4.47 mm] |

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-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex LMR-600-UF](#)



Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex

RF Cables Technical Data Sheet



LMR-600-UF

| | | |
|----------------|---------------|---------------------|
| Conductor Type | Stranded | |
| Dielectric | Foam PE | 0.455 in [11.56 mm] |
| First Shield | Aluminum Tape | [] |
| Second Shield | Tinned Copper | [] |
| Jacket | TPE, Black | 0.59 in [14.99 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 |

Environmental Specification Notes:
Indoor/Outdoor

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

Plotted and Other Data

Notes:

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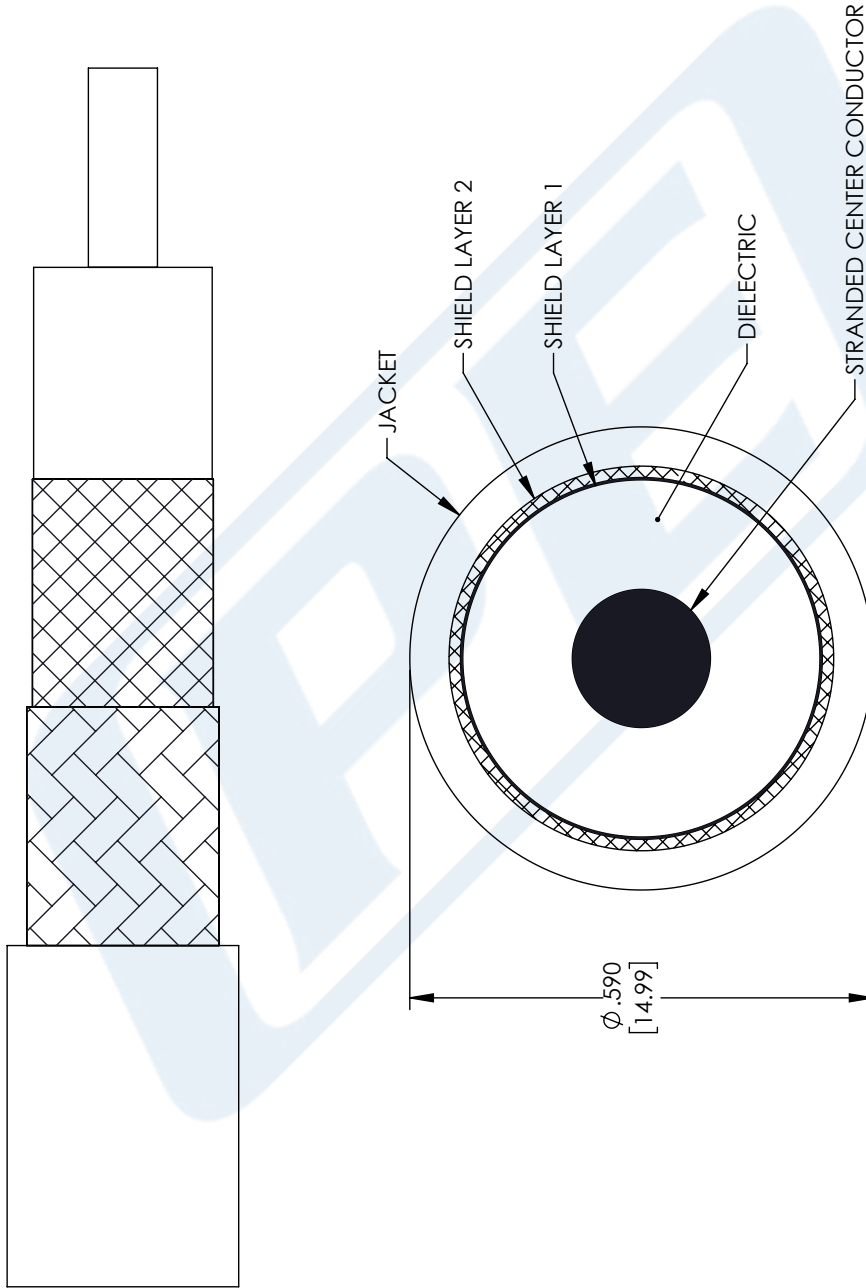
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URL: <https://www.pasternack.com/low-loss-flexible-lmr-600-uf-tpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-600-uf-p.aspx>

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TIMES MICROWAVE SYSTEMS **LMR-600-UF CAD Drawing**
 Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable
 Double Shielded with Black TPE Jacket Ultra Flex

| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 06-04-2021 | SELLIS |



| | | |
|---|--|--|
| PE PASTERNAK an INFINITI® brand Pasternack 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.pasternack.com E-mail: sales@pasternack.com | | THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE N/A |
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