



UHF Male Connector Crimp/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch

## RF Connectors Technical Data Sheet

**PE44054**

### Configuration

- UHF Male Connector
- 50 Ohms
- Straight Body Geometry

- PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch Interface Type
- Crimp/Solder Attachment

### Features

- Gold Plated Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44054 UHF male connector with crimp/solder attachment for PE-B400, PE-B405, PE-C400, LMR-400 and 0.400 inch is part of our full line of RF components available for same-day shipping.

Our UHF male connector PE44054 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.

### Mechanical Specifications

#### Size

Length  
Width/Dia.

1.35 in [34.29 mm]  
0.7 in [17.78 mm]

Weight

0.041 lbs [18.6 g]

### Material Specifications

| Description  | Material | Plating |
|--------------|----------|---------|
| Contact      |          | Gold    |
| Insulation   | PTFE     |         |
| Body         | Brass    | Nickel  |
| Coupling Nut | Brass    | Nickel  |

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/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch PE44054](#)



UHF Male Connector Crimp/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch

## RF Connectors Technical Data Sheet

**PE44054**

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

### Plotted and Other Data

Notes:

UHF Male Connector Crimp/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch PE44054](#)

URL: <https://www.pasternack.com/uhf-male-pe-b400-pe-b405-lmr-400-uf-connector-pe44054-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.

PE44054 CAD Drawing

UHF Male Connector Crimp/Solder Attachment for PE-  
B400, PE-B405, PE-C400, LMR-400, 0.400 inch



CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .429" HEX CRIMP TOOL

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

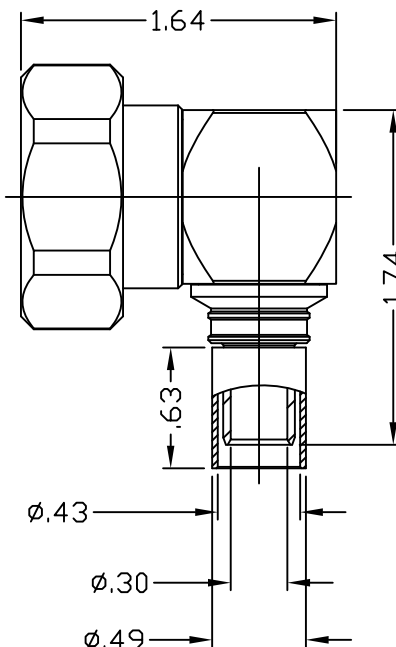
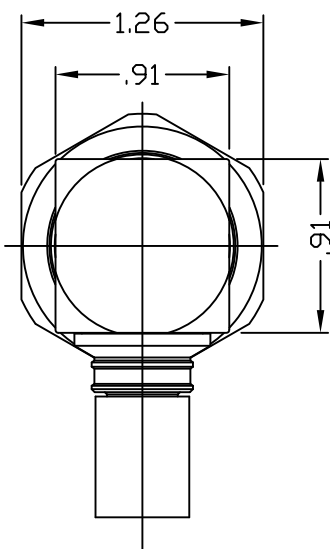
DWG TITLE  
**PE44054**

**PE PASTERNAK®**  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
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Website: www.pasternack.com | E-Mail: sales@pasternack.com

|        |                |                 |           |        |     |
|--------|----------------|-----------------|-----------|--------|-----|
| REV. A | FSCM NO. 53919 | CAD FILE 050609 | SCALE N/A | SIZE A | 127 |
|--------|----------------|-----------------|-----------|--------|-----|

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| SYM | REVISION DESCRIPTION    | DFTM   | DATE    | APPD   | DATE    |
|-----|-------------------------|--------|---------|--------|---------|
| A   | RELEASED FOR PRODUCTION | K.A.M. | 3/31/10 | J.B.D. | 5/17/10 |



Reference standard IEC60169-4

#### I Electric Performance

Nominal Impedance( $\Omega$ ): 50  
Frequency Range: DC-3GHz  
VSWR:  $\leq 1.15$   
INSERT LOSS:  $\leq 0.1$   
Insulation resistance(M $\Omega$ ) 10000  
Proof voltage(V) 2500  
Conductor resistance(m $\Omega$ ) outer conductor  $\leq 0.2$   
inner conductor  $\leq 0.8$

#### II Mechanical Performance

Pin torque 25N.m  
(Nut)Whorl pull 1000N  
Tensile force(cable-connect) 400N  
Torsion(cable-connect) 2N.m

#### III Material and plating

| Component       | Material        |
|-----------------|-----------------|
| Inner conductor | Spring Copper   |
| Outer conductor | Brass           |
| Ferrule         | Copper          |
| Nut             | Brass           |
| Gasket          | Silicone rubber |
| Insulator       | PTFE            |

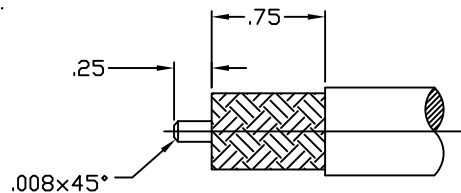
**Plating**  
Ag 200 micro inches  
Copper-tin-zin (Albaloy) 150 micro inches  
Copper-tin-zin (Albaloy) 150 micro inches  
Copper-tin-zin (Albaloy) 150 micro inches

#### IV Environment

Temp.range -55°C~+155°C  
Weather standard IEC 60068 55 / 155/ 56  
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  
Waterproofing standard IP67

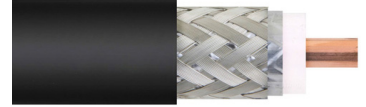
V Assembly: inner conductor installed and  
outer conductor crimped

#### VI ROHS Compliant.



Recommended  
cable stripping Dim's

|                   |             |                              |            |       |                |                                   |             |       |
|-------------------|-------------|------------------------------|------------|-------|----------------|-----------------------------------|-------------|-------|
| MATL:             |             | UNLESS OTHERWISE SPECIFIED   |            |       | DFTM. K. A. M. | TIMES MICROWAVE SYSTEMS           |             |       |
|                   |             | ALL DIMENSIONS ARE IN INCHES |            |       | DATE 3/31/10   |                                   |             |       |
| USED ON:<br><br>0 |             |                              |            |       | CHKD. J. D. B. | 90° 7/16 MALE<br>FOR LMR400 CABLE |             |       |
|                   |             |                              |            |       | DATE 5/17/10   |                                   |             |       |
|                   |             |                              |            |       | APPD. J. D. B. |                                   |             |       |
| SCALE: ~          | DWG. SIZE A | DO NOT SCALE DRAWING         | CODE IDENT | 68999 | DATE 5/17/10   | SHEET 1 of 1                      | SD3190-2545 | REV A |



## Low Loss Flexible LMR-400 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet



**LMR-400**

#### Times Microwave Systems Coax Cable Specification Configuration

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

#### Features

- Flexible Low Loss Communications Coax
- Replacement for Air Dielectric type RG8 cable
- Double Shields provides RF Shielding in excess of 90 db
- Low Loss size for size compared to standard flexible cable

#### Description

Flexible Low Loss Communications Coax Replacement for Air Dielectric type RG8 cable Double Shields provides RF Shielding in excess of 90 db Low Loss size for size compared to standard flexible cable

#### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units        |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                      | DC      |              | 6       | GHz          |
| Impedance                            |         | 50           |         | Ohms         |
| Velocity of Propagation              |         | 85           |         | %            |
| Time Delay                           |         | 1.2 [3.94]   |         | ns/ft [ns/m] |
| Shielding Effectiveness              | 90      |              |         | dB           |
| Dielectric Withstanding Voltage (DC) |         |              | 2,500   | Vdc          |
| Jacket Spark                         |         |              | 8,000   | Vrms         |
| Inner Conductor DC Resistance        |         |              | 1.39    | Ohms/1000ft  |
| Outer Conductor DC Resistance        |         |              | 1.65    | Ohms/1000ft  |
| Nominal Capacitance                  |         | 23.9 [78.41] |         | pF/ft [pF/m] |
| Nominal Inductance                   |         | 0.06 [0.2]   |         | uH/ft [uH/m] |
| Input Power (Peak)                   |         |              | 16      | kWatts       |

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-400 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket LMR-400](#)



## Low Loss Flexible LMR-400 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet

#### Performance by Frequency Band

| Description           | F1    | F2    | F3    | F4   | F5   | Units    |
|-----------------------|-------|-------|-------|------|------|----------|
| Frequency             | 50    | 150   | 220   | 450  | 900  | MHz      |
| Attenuation, Typ      | 0.9   | 1.5   | 1.9   | 2.7  | 3.9  | dB/100ft |
|                       | 2.95  | 4.92  | 6.23  | 8.86 | 12.8 | dB/100m  |
| Input Power (CW), Max | 2,570 | 1,470 | 1,200 | 830  | 580  | Watts    |

| Description           | F6    | F7   | F8    | F9    | F10   | Units    |
|-----------------------|-------|------|-------|-------|-------|----------|
| Frequency             | 1.5   | 1.8  | 2     | 2.5   | 5.8   | GHz      |
| Attenuation, Typ      | 5.1   | 5.7  | 6     | 6.8   | 10.8  | dB/100ft |
|                       | 16.73 | 18.7 | 19.69 | 22.31 | 35.43 | dB/100m  |
| Input Power (CW), Max | 440   | 400  | 370   | 330   | 210   | Watts    |

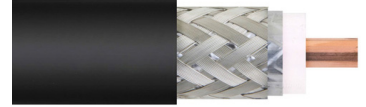
#### Mechanical Specifications

|                                 |                         |
|---------------------------------|-------------------------|
| Diameter                        | 0.405 in [10.29 mm]     |
| Weight                          | 0.067 lbs/ft [0.1 kg/m] |
| Min. Bend Radius (Installation) | 1 in [25.4 mm]          |
| Min. Bend Radius (Repeated)     | 4 in [101.6 mm]         |
| Bending Moment                  | 0.5 lbs-ft [0.68 N-m]   |
| Tensile Strength                | 160 lbs [72.57 kg]      |
| Flat Plate Crush                | 40 lbs/in [0.71 kg/mm]  |

#### Construction Specifications

| Description     | Material and Plating           | Diameter           |
|-----------------|--------------------------------|--------------------|
| Inner Conductor | Copper Clad Aluminum, 1 Strand | 0.108 in [2.74 mm] |
| Conductor Type  | Solid                          |                    |
| Dielectric      | PE (F)                         | 0.285 in [7.24 mm] |
| First Shield    | Aluminum Tape                  | 0.29 in [7.37 mm]  |
| Second Shield   | Tinned Copper Braid            | 0.32 in [8.13 mm]  |

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Low Loss Flexible LMR-400 Outdoor Rated Coax  
Cable Double Shielded with Black PE Jacket

**RF Cables**  
**Technical Data Sheet**

|        |           |                     |
|--------|-----------|---------------------|
| Jacket | PE, Black | 0.405 in [10.29 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**

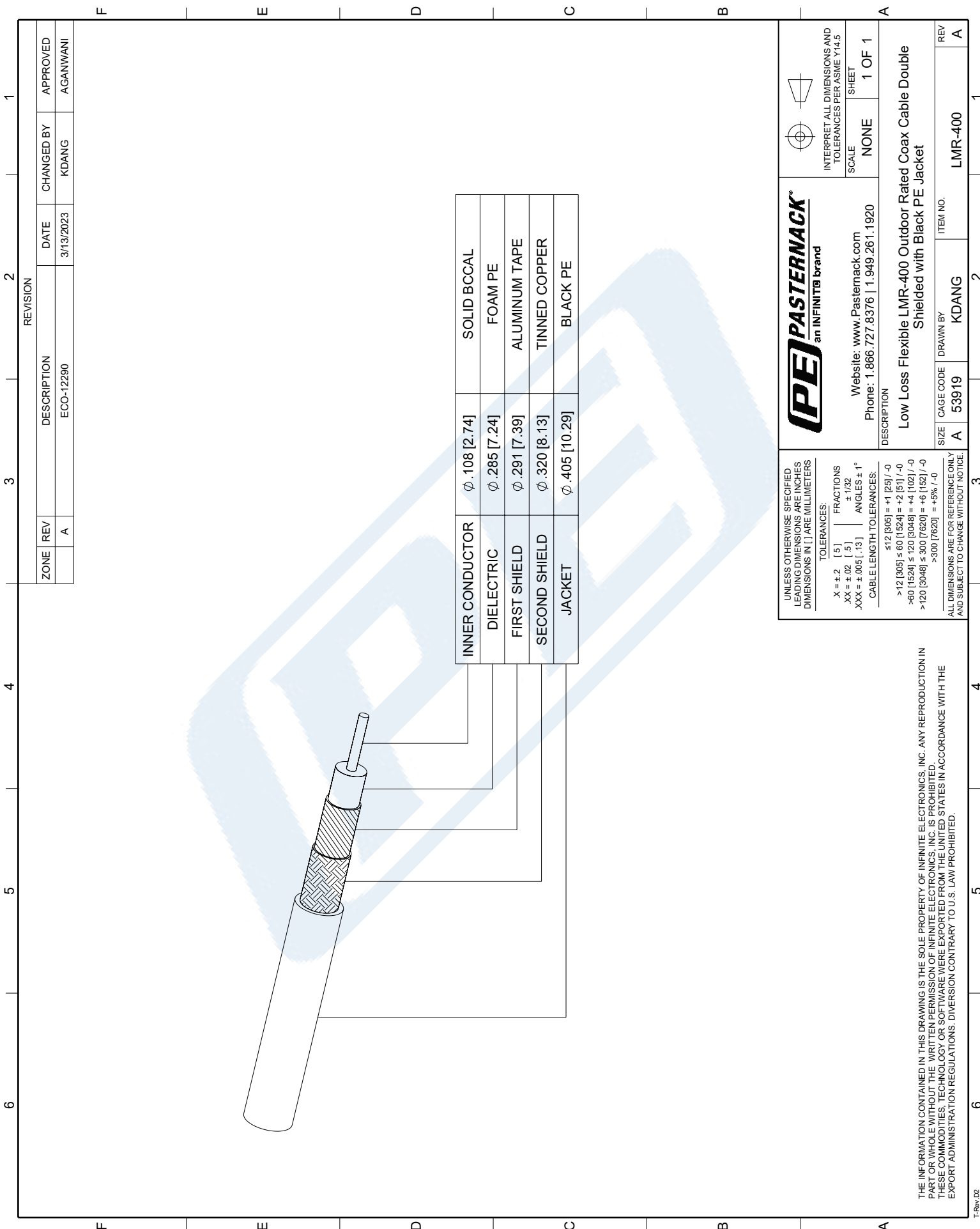
Notes:

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URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr400-pe-jacket-double-shielded-black-lmr-400-p.aspx>

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| ZONE | REV | DESCRIPTION | DATE      | CHANGED BY | APPROVED |
|------|-----|-------------|-----------|------------|----------|
|      | A   | ECO-12290   | 3/13/2023 | KDANG      | AGANWANI |

|                 |                |               |
|-----------------|----------------|---------------|
| INNER CONDUCTOR | Ø .108 [2.74]  | SOLID BCCAL   |
| DIELECTRIC      | Ø .285 [7.24]  | FOAM PE       |
| FIRST SHIELD    | Ø .291 [7.39]  | ALUMINUM TAPE |
| SECOND SHIELD   | Ø .320 [8.13]  | TINNED COPPER |
| JACKET          | Ø .405 [10.29] | BLACK PE      |

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Phone: 1.866.727.8376 | 1.949.261.1920

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

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

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.

INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION  
Low Loss Flexible LMR-400 Outdoor Rated Coax Cable Double  
Shielded with Black PE Jacket

SIZE A CAGE CODE 53919 DRAWN BY KDANG ITEM NO. LMR-400 REV A

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