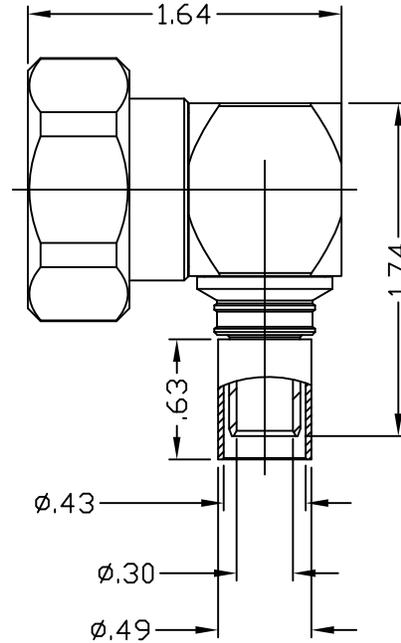
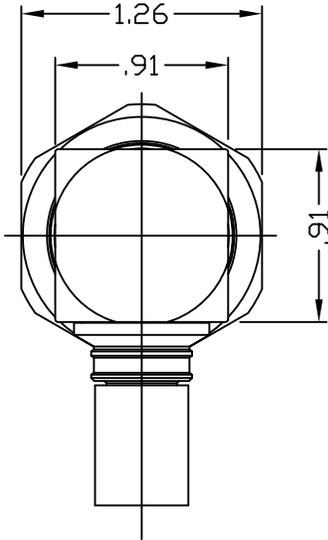


**NOTICE OF PROPRIETARY RIGHTS** THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA, INCLUDING TRADE SECRETS, PROPRIETARY TO TIMES MICROWAVE SYSTEMS. DISCLOSURE OF THIS DATA IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY. ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF TIMES MICROWAVE SYSTEMS.

| SYM | REVISION DESCRIPTION    | DFTM   | DATE    | APPD   | DATE    |
|-----|-------------------------|--------|---------|--------|---------|
| A   | RELEASED FOR PRODUCTION | K.A.M. | 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            |

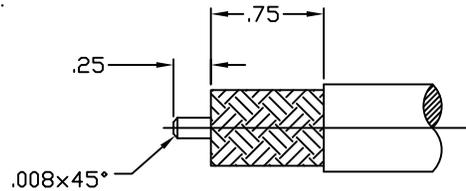
**Plating**  
 Ag 200 micro inches  
 Copper-tin-zin (Albaloy) 150 micro inches  
 Copper-tin-zin (Albaloy) 150 micro inches  
 Copper-tin-zin (Albaloy) 150 micro inches

**IV Environment**

Temp.range -55 $^{\circ}$ C~+155 $^{\circ}$ 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.

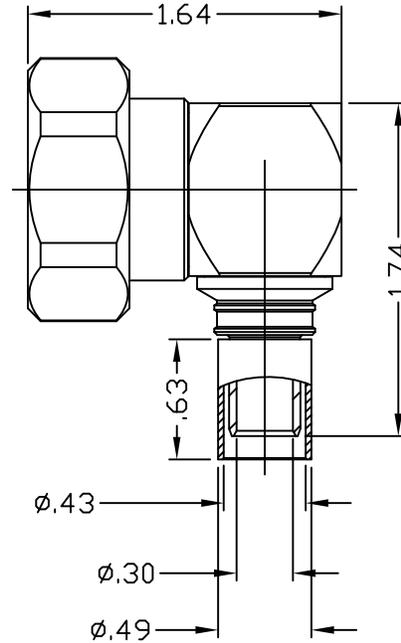
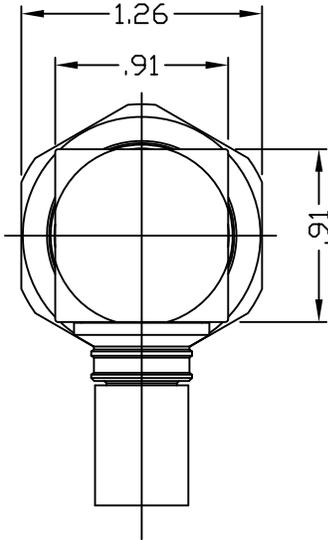


Recommended cable stripping Dim's

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

**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. | 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            |

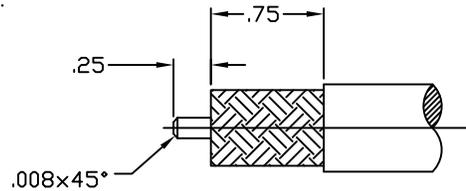
**IV Environment**

Temp.range -55 $^{\circ}$ C~+155 $^{\circ}$ 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.**

**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



Recommended cable stripping Dim's

|               |                              |                      |                                   |               |               |             |        |
|---------------|------------------------------|----------------------|-----------------------------------|---------------|---------------|-------------|--------|
| MATERIAL:     | UNLESS OTHERWISE SPECIFIED   | DFTM: K. A. M.       | TIMES MICROWAVE SYSTEMS           |               |               |             |        |
|               | ALL DIMENSIONS ARE IN INCHES | DATE: 3/31/10        |                                   |               |               |             |        |
| USED ON:<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 RG8 Type Coax Cable Double Shielded with Black PE Jacket

## RF Cables Technical Data Sheet

PE-C400

### Configuration

- Low Loss Flexible Cable
- 2 Shield(s)

### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units        |
|-------------------------------|---------|--------------|---------|--------------|
| Frequency Range               | DC      |              | 5.8     | GHz          |
| Impedance                     |         | 50           |         | Ohms         |
| Velocity of Propagation       |         | 85           |         | %            |
| Shielding Effectiveness       | 90      |              |         | dB           |
| Inner Conductor DC Resistance |         |              | 1.39    | Ohms/1000ft  |
| Outer Conductor DC Resistance |         |              | 1.85    | Ohms/1000ft  |
| Nominal Capacitance           |         | 23.9 [78.41] |         | pF/ft [pF/m] |
| Nominal Inductance            |         | 0.059 [0.19] |         | uH/ft [uH/m] |

### Performance by Frequency Band

| Description           | F1    | F2    | F3   | F4    | F5   | Units    |
|-----------------------|-------|-------|------|-------|------|----------|
| Frequency             | 150   | 220   | 450  | 750   | 900  | MHz      |
| Attenuation, Typ      | 1.5   | 1.9   | 2.7  | 3.55  | 3.9  | dB/100ft |
|                       | 4.92  | 6.23  | 8.86 | 11.65 | 12.8 | dB/100m  |
| Input Power (CW), Max | 1,280 | 1,050 | 720  | 560   | 500  | 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 | 380   | 340  | 330   | 290   | 180   | Watts    |

### Mechanical Specifications

|          |                         |
|----------|-------------------------|
| Diameter | 0.405 in [10.29 mm]     |
| Weight   | 0.064 lbs/ft [0.1 Kg/m] |

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 RG8 Type Coax Cable Double Shielded with Black PE Jacket PE-C400](#)



## Low Loss Flexible RG8 Type Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet

PE-C400

Min. Bend Radius (Repeated) 4 in [101.6 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                  |                     |
| Second Shield   | Tinned Copper Braid            | 0.32 in 8.13 mm     |
| Jacket          | PE, Black                      | 0.405 in [10.29 mm] |

#### Environmental Specifications

##### Temperature

|                    |                  |
|--------------------|------------------|
| Operating Range    | -40 to +85 deg C |
| Installation Range | -70 to +85 deg C |
| Storage Range      | -40 to +85 deg C |

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

#### Plotted and Other Data

Notes:

Low Loss Flexible RG8 Type 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.

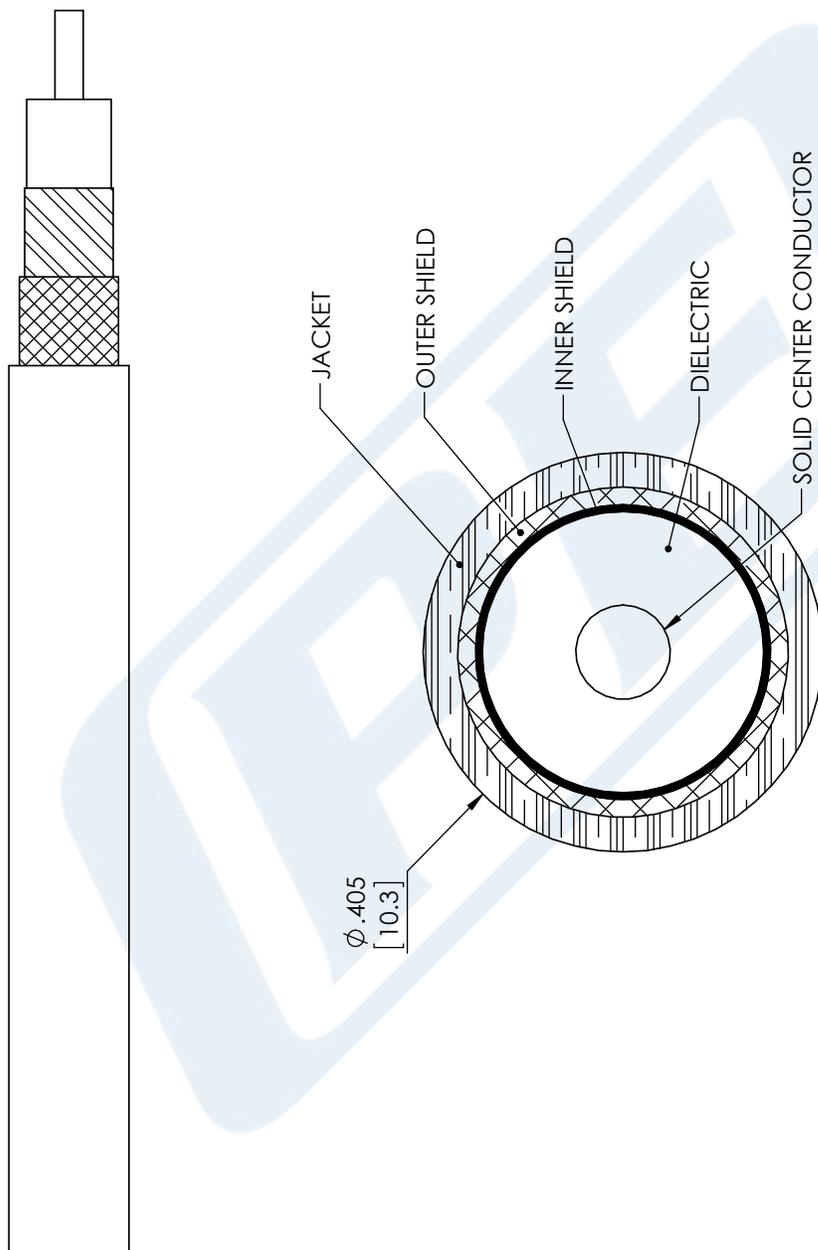
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG8 Type Coax Cable Double Shielded with Black PE Jacket PE-C400](#)

URL: <https://www.pasternack.com/flexible-0.405-50-ohm-coax-cable-pe-jacket-pe-c400-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.

# PE-C400 CAD Drawing

Low Loss Flexible RG8 Type Coax Cable Double Shielded with Black PE Jacket



**STANDARD TOLERANCES**

- .X ±0.2
- .XX ±0.01
- .XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623  
**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** www.pasternack.com | **E-Mail:** sales@pasternack.com

DWG TITLE

PE-C400

**CAGE CODE 53919**

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].

CAD FILE 11/28/17

SCALE N/A

SIZE A

CN2245