



## 1.0/2.3 Jack Right Angle Bulkhead Connector Crimp/ Solder Attachment For RG58, .236 inch DD Hole

### TECHNICAL DATA SHEET

PE44260

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##### Configuration

|                                          |              |
|------------------------------------------|--------------|
| Connector                                | 1.0/2.3 Jack |
| Connector Interface Type                 | RG58         |
| Cable Attachment Method (Shield/Contact) | Crimp/Solder |
| Body Style                               | Right Angle  |
| Mount Method                             | Bulkhead     |

##### Electrical Specifications

|                 |    |
|-----------------|----|
| Impedance, Ohms | 50 |
|-----------------|----|

##### Mechanical Specifications

###### Size

|                     |               |
|---------------------|---------------|
| Length, in [mm]     | 1.003 [25.48] |
| Width/Dia., in [mm] | 0.315 [8.00]  |
| Height, in [mm]     | 0.591 [15.01] |
| Weight, lbs [g]     | 0.013 [5.9]   |

###### Connector

|                               |                        |
|-------------------------------|------------------------|
| Type                          | 1.0/2.3 Jack           |
| Contact Material and Plating  | Beryllium Copper, Gold |
| Contact Plating Specification | 30µ in. minimum        |
| Body Material and Plating     | Brass, Gold            |
| Dielectric Type               | Teflon                 |

##### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

##### Plotted and Other Data

|        |                            |
|--------|----------------------------|
| Notes: | Values at 25 °C, sea level |
|--------|----------------------------|

1.0/2.3 Jack Right Angle Bulkhead Connector Crimp/Solder Attachment For RG58, .236 inch DD Hole from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

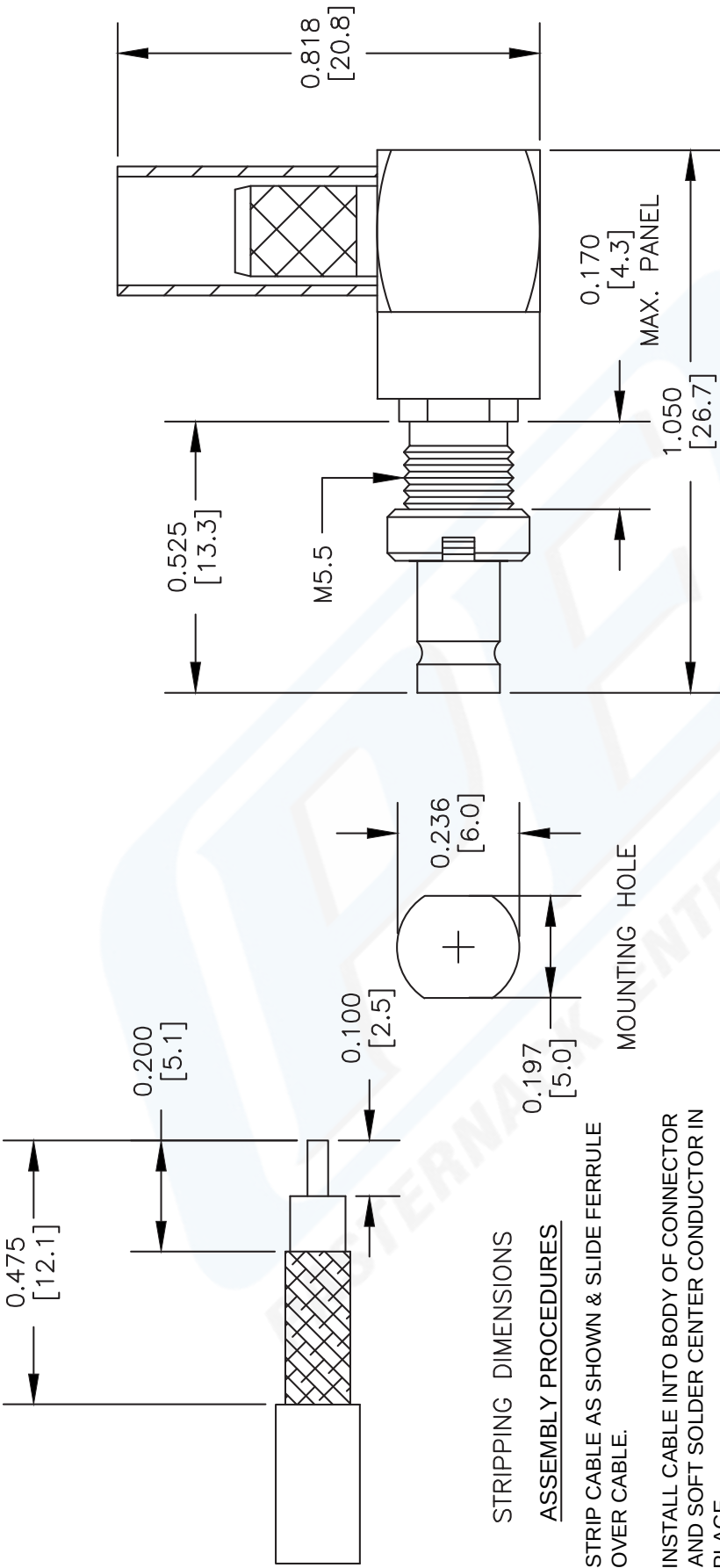
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.0/2.3 Jack Right Angle Bulkhead Connector Crimp/Solder Attachment For RG58, .236 inch DD Hole PE44260](http://www.pasternack.com/1.0-2.3-jack-standard-rg58-connector-pe44260-p.aspx)

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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.

PE44260 CAD Drawing

1.0/2.3 Jack Right Angle Bulkhead Connector Crimp/  
Solder Attachment For RG58, .236 inch DD Hole



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  
**PE44260**

FSCM NO. 53919

CAD FILE 100103

SCALE N/A

SIZE A

127

**PE PASTERNAK®**  
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



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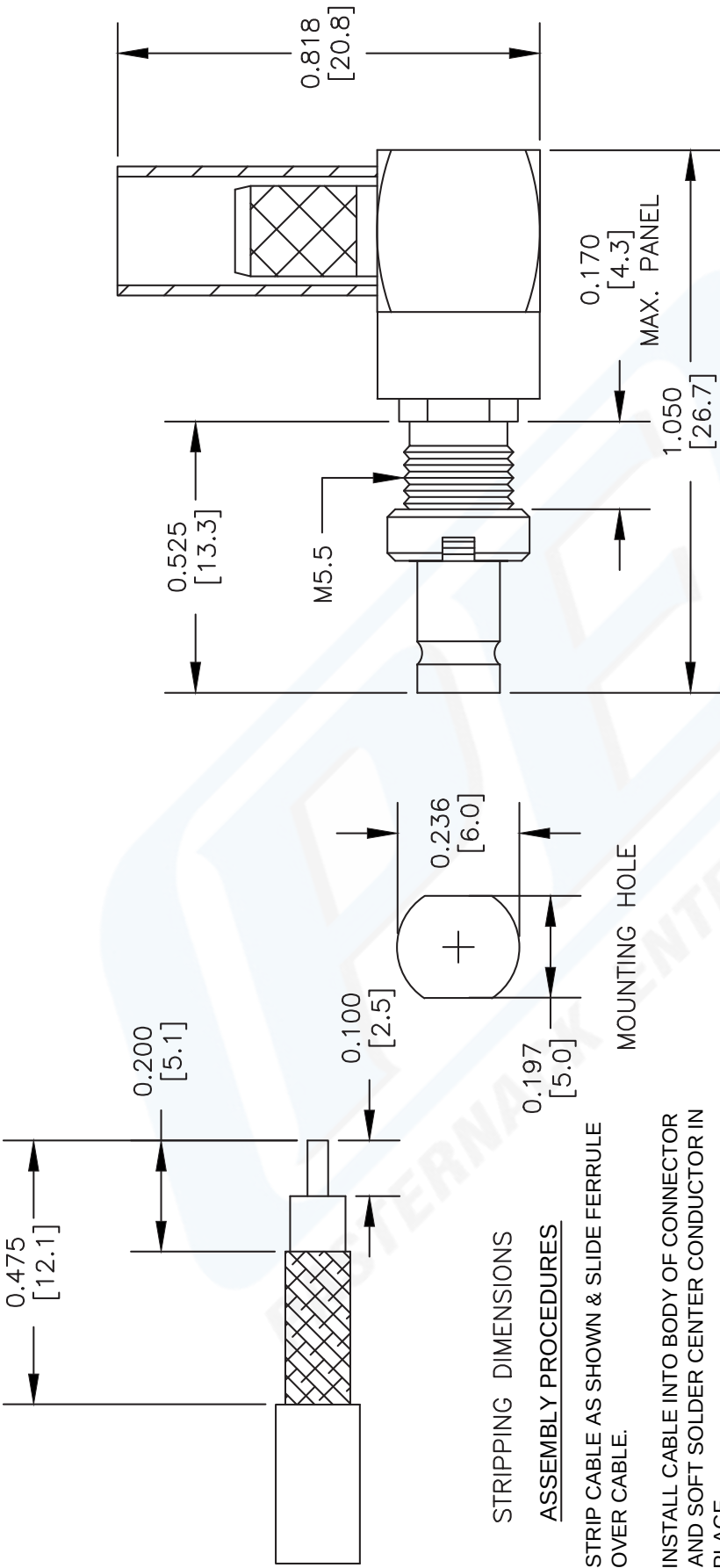
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# LMR®-195

## Flexible Low Loss Communications Coax

### Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
- Drop-in replacement for RG-58 and RG-142



• **LMR®** standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than air-dielectric and corrugated hard-line cables.

• **LMR® -DB** is identical to standard LMR plus has the advantage of being watertight. The addition of waterproofing compound in and around the foil/braid insures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.

• **LMR® -FR** is a non-halogen (non-toxic), low smoke, fire retardant cable designed for in-building runs that can be routed anywhere except air handling plenums. LMR-FR is UL/NEC & CSA rated 'CMR' and 'FT4' respectively, meets FAA FAR25 requirements and is MSHA-P for mining applications.

• **LMR® -FR-PVC** is a general-purpose indoor cable and has a UL/NEC & CSA rating of 'CMR' and 'FT4' respectively. It is less expensive than LMR-FR, however it emits toxic fumes (HCL) and greater smoke density when burned.

• **LMR® -PVC** is designed for low loss general-purpose applications and is somewhat more flexible than the standard polyethylene jacketed LMR.

• **LMR® -PVC-W** is a white-jacketed version of LMR-PVC for marine and other applications where color compatibility is desired.

• **LMR® -MA** is a flexible cable designed specifically for mobile antenna applications. It has a PVC jacket and un-bonded aluminum tape to facilitate end stripping with automated equipment.

• **Flexibility** and bendability are hallmarks of the LMR-195 cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.

• **Low Loss** is another hallmark feature of LMR-195. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.

• **RF Shielding** is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. >180 dB between two adjacent cables).

• **Weatherability:** LMR-195 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.

• **Connectors:** A wide variety of connectors are available for LMR-195 cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.

• **Cable Assemblies:** All LMR-195 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

| Part Description |                          |        |       | Stock |
|------------------|--------------------------|--------|-------|-------|
| Part Number      | Application              | Jacket | Color | Code  |
| LMR-195          | Outdoor                  | PE     | Black | 54110 |
| LMR-195-DB       | Outdoor/Watertight       | PE     | Black | 54113 |
| LMR-195-FR       | Indoor/Outdoor Riser CMR | FRPE   | Black | 54111 |
| LMR-195-FR-W     | Indoor/Outdoor Riser CMR | FRPE   | White | 54158 |
| LMR-195-FR-PVC   | Indoor/Outdoor Riser CMR | FRPVC  | Black | 54105 |
| LMR-195-MA       | Mobile Antennas          | PVC    | Black | 54210 |
| LMR-195-PVC      | General Purpose          | PVC    | Black | 54215 |
| LMR-195-PVC-W    | General Purpose          | PVC    | White | 54199 |

| Construction Specifications |                   |       |        |
|-----------------------------|-------------------|-------|--------|
| Description                 | Material          | In.   | (mm)   |
| Inner Conductor             | Solid BC          | 0.037 | (0.94) |
| Dielectric                  | Foam PE           | 0.110 | (2.79) |
| Outer Conductor             | Aluminum Tape     | 0.116 | (2.95) |
| Overall Braid               | Tinned Copper     | 0.139 | (3.53) |
| Jacket                      | (see table above) | 0.195 | (4.95) |



### Mechanical Specifications

| Performance Property      | Units          | US    | (metric) |
|---------------------------|----------------|-------|----------|
| Bend Radius: installation | in. (mm)       | 0.5   | (12.7)   |
| Bend Radius: repeated     | in. (mm)       | 2.0   | (50.8)   |
| Bending Moment            | ft-lb (N-m)    | 0.2   | (0.27)   |
| Weight                    | lb/ft (kg/m)   | 0.021 | (0.03)   |
| Tensile Strength          | lb (kg)        | 40    | (18.2)   |
| Flat Plate Crush          | lb/in. (kg/mm) | 15    | (0.27)   |

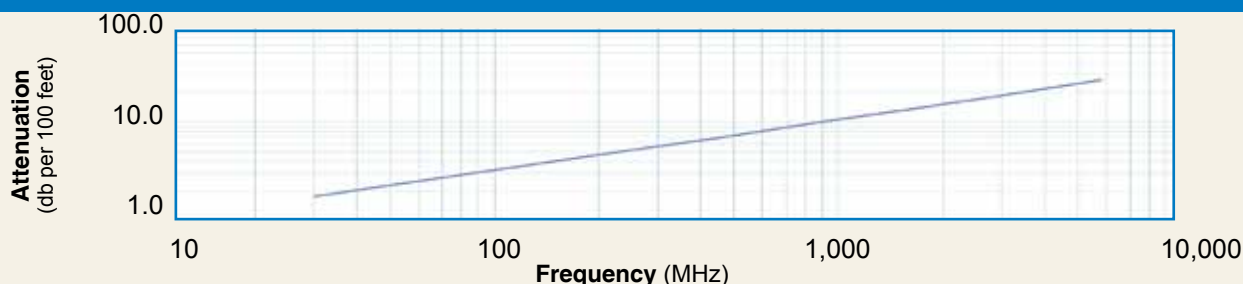
### Environmental Specifications

| Performance Property           | °F       | °C      |
|--------------------------------|----------|---------|
| Installation Temperature Range | -40/+185 | -40/+85 |
| Storage Temperature Range      | -94/+185 | -70/+85 |
| Operating Temperature Range    | -40/+185 | -40/+85 |

### Electrical Specifications

| Performance Property    | Units             | US    | (metric) |
|-------------------------|-------------------|-------|----------|
| Velocity of Propagation | %                 | 76    |          |
| Dielectric Constant     | NA                | 1.56  |          |
| Time Delay              | nS/ft (nS/m)      | 1.27  | (4.17)   |
| Impedance               | ohms              | 50    |          |
| Capacitance             | pF/ft (pF/m)      | 25.4  | (83.3)   |
| Inductance              | uH/ft (uH/m)      | 0.064 | (0.21)   |
| Shielding Effectiveness | dB                | >90   |          |
| DC Resistance           |                   |       |          |
| Inner Conductor         | ohms/1000ft (/km) | 7.6   | (24.9)   |
| Outer Conductor         | ohms/1000ft (/km) | 4.9   | (16.1)   |
| Voltage Withstand       | Volts DC          | 1000  |          |
| Jacket Spark            | Volts RMS         | 3000  |          |
| Peak Power              | kW                | 2.5   |          |

### Attenuation vs. Frequency (typical)



| Frequency (MHz)       | 30   | 50   | 150  | 220  | 450  | 900  | 1500 | 1800 | 2000 | 2500 | 5800 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|
| Attenuation dB/100 ft | 2.0  | 2.5  | 4.4  | 5.4  | 7.8  | 11.1 | 14.5 | 16.0 | 16.9 | 19.0 | 29.9 |
| Attenuation dB/100 m  | 6.5  | 8.4  | 14.6 | 17.7 | 25.5 | 36.5 | 47.7 | 52.5 | 55.4 | 62.4 | 98.1 |
| Avg. Power kW         | 0.89 | 0.68 | 0.39 | 0.32 | 0.22 | 0.16 | 0.12 | 0.11 | 0.10 | 0.09 | 0.06 |

Calculate Attenuation =  $(0.356859) \cdot \sqrt{\text{FMHz}} + (0.000470) \cdot \text{FMHz}$  (interactive calculator available at [http://www.timesmicrowave.com/cable\\_calculators](http://www.timesmicrowave.com/cable_calculators))  
**Attenuation:** VSWR=1.0 ; Ambient = +25°C (77°F) **Power:** VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F);  
 Sea Level; dry air; atmospheric pressure; no solar loading



TC-195-NM



TC-195-SM



TC-195-NM-RA-D



TC-195-TM

## Connectors

| Interface | Description   | Part Number     | Stock Code | VSWR**<br>Freq. (GHz) | Coupling<br>Nut | Inner<br>Contact<br>Attach | Outer<br>Contact<br>Attach | Finish*<br>Body /Pin | Length<br>in (mm) | Width<br>in (mm) | Weight<br>lb (g) |
|-----------|---------------|-----------------|------------|-----------------------|-----------------|----------------------------|----------------------------|----------------------|-------------------|------------------|------------------|
| N male    | Straight Plug | TC-195-NM       | 3190-1555  | <1.25:1 (2.5)         | Knurl           | Solder                     | Crimp                      | S/G                  | 1.5 (38.1)        | 0.75 (19.1)      | 0.073 (33.1)     |
| N male    | Right Angle   | TC-195-NMH-RA-D | 3190-2425  | <1.35:1 (6)           | Hex/Knurl       | Solder                     | Crimp                      | A/G                  | 1.3 (32.1)        | 1.19 (30.1)      | 0.083 (37.5)     |
| SMA male  | Straight Plug | TC-195-SM       | 3190-1553  | <1.25:1 (2.5)         | Hex             | Solder                     | Crimp                      | SS/G                 | 1.0 (25.4)        | 0.32 (8.1)       | 0.015 (6.8)      |
| TNC male  | Straight Plug | TC-195-TM       | 3190-1554  | <1.25:1 (2.5)         | Knurl           | Solder                     | Crimp                      | S/G                  | 1.4 (35.6)        | 0.59 (15.0)      | 0.045 (20.4)     |

\* Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alloy \*\*VSWR spec based on 3 foot cable with a connector pair

## Install Tools

| Type              | Part Number        | Stock Code | Description                                        |
|-------------------|--------------------|------------|----------------------------------------------------|
| Crimp Tool        | CT-240/200/195/100 | 3190-667   | Crimp tool for LMR-100,195, 200 and 240 connectors |
| Cutting Tool      | CCT-01             | 3190-1544  | Cable end flush cut tool                           |
| Deburr Tool       | DBT-U              | 3192-001   | Removes center conductor rough edges               |
| Replacement Blade | RB-01              | 3190-1609  | Replacement blade for cutting tool                 |



CT-240/200/195/100



DBT-U



CCT-01