



## N Male Connector Crimp/Solder Attachment For RG58

### RF Connectors Technical Data Sheet

**PE4329**

#### Configuration

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- RG58 Interface Type
- Crimp/Solder Attachment

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 12.4    | GHz   |
| Dielectric Withstanding Voltage (AC) |         |         | 700     |       |

#### Mechanical Specifications

Weight 0.068 lbs [30.84 g]

#### Material Specifications

| Description | Material | Plating |
|-------------|----------|---------|
| Contact     | Brass    | Silver  |
| Insulation  | Teflon   |         |
| Body        | Brass    | Nickel  |

#### Environmental Specifications

##### Temperature

Operating Range -65 to 165 deg C

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

RoHS Compliant

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Solder Attachment For RG58 PE4329](#)



## N Male Connector Crimp/Solder Attachment For RG58

### RF Connectors Technical Data Sheet

**PE4329**

#### Plotted and Other Data

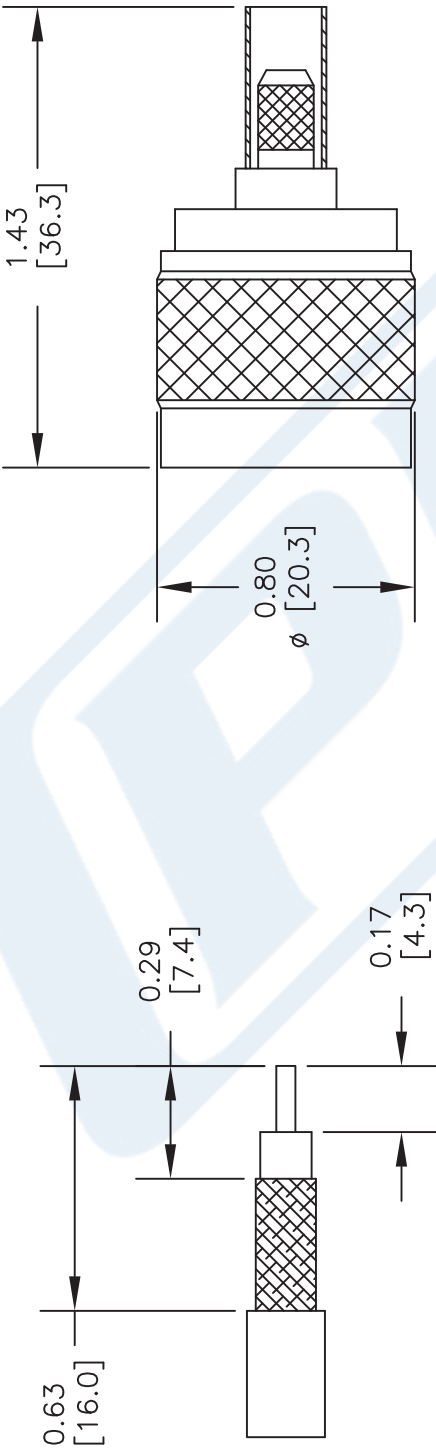
Notes:

N Male Connector Crimp/Solder Attachment For RG58 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: [N Male Connector Crimp/Solder Attachment For RG58 PE4329](#)

URL: <http://www.pasternack.com/n-male-standard-rg58-connector-pe4329-p.aspx>

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STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: .068" HEX CRIMP TOOL  
FERRULE: .213" 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 |  | FSCM NO. 53919 |  | CAD FILE 010416 |  | SCALE N/A |  | SIZE A |  | 2233 |  |
| PE4329    |  |                |  |                 |  |           |  |        |  |      |  |

**PASTERNAK®**  
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SMA Female Connector Clamp/Solder Attachment  
for RG55, RG58, RG141, RG142, RG223, RG303,  
RG400, PE-C195, PE-P195, LMR-195

## RF Connectors Technical Data Sheet

**PE4031**

### Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 Interface Type
- Clamp/Solder Attachment

### Features

- Gold Plated Contact
- Contact plating according to MIL-G-45204

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4031 SMA female connector with clamp/solder attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195 and LMR-195 is part of our full line of RF components available for same-day shipping.

Our SMA female connector PE4031 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

|             |                     |
|-------------|---------------------|
| <b>Size</b> |                     |
| Length      | 0.705 in [17.91 mm] |
| Width/Dia.  | 0.312 in [7.92 mm]  |
| Weight      | 0.009 lbs [4.08 g]  |

### Material Specifications

| Description | Material | Plating             |
|-------------|----------|---------------------|
| Contact     |          | Gold<br>MIL-G-45204 |
| Insulation  | PTFE     |                     |
| Body        | Brass    | Nickel<br>QQ-N-290  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)



SMA Female Connector Clamp/Solder Attachment  
for RG55, RG58, RG141, RG142, RG223, RG303,  
RG400, PE-C195, PE-P195, LMR-195

## RF Connectors Technical Data Sheet

**PE4031**

### Environmental Specifications

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

### Plotted and Other Data

Notes:

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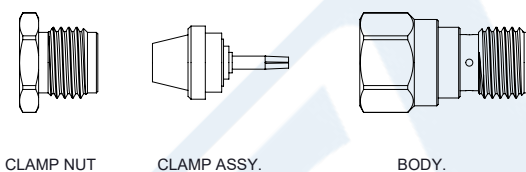
SMA Female Connector Clamp/Solder Attachment  
for RG55, RG58, RG141, RG142, RG223, RG303,  
RG400, PE-C195, PE-P195, LMR-195



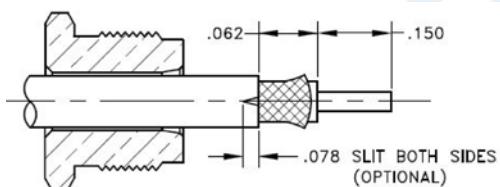
## RF Connectors Technical Data Sheet

**PE4031**

### Assembly Instruction

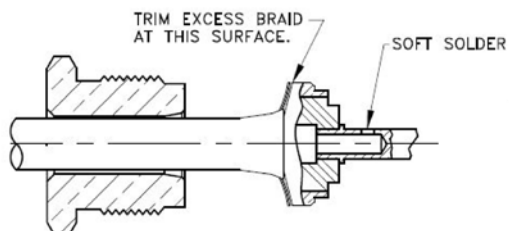


#### CABLE ASSEMBLY INSTRUCTIONS.

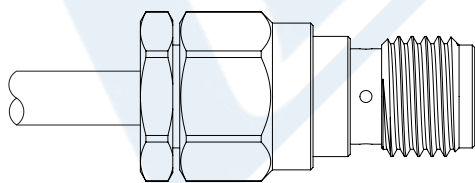


1. SLIDE NUT ONTO CABLE AS SHOWN. CUT CABLE SQUARE. TRIM CABLE TO DIMENSIONS SHOWN BEING CAREFUL NOT TO NICK THE BRAID OR CENTER CONDUCTOR. ROTATE DIELECTRIC TO FLARE BRAID.

NOTE: TWO SLITS IN THE JACKET 180° APART AS SHOWN MAY BE NEEDED TO PRESS JACKET TO SHOULDER.



2. SLIDE CLAMP ASSY OVER DIELECTRIC AND UNDER BRAID UNTIL THE DIELECTRIC BOTTOMS OUT IN CLAMP AND THE CENTER CONDUCTOR IS VISIBLE INSIDE HOLE OF CONTACT. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR. DO NOT OVERHEAT!.



3. INSERT THE ASSEMBLY INTO THE REAR BODY. HOLD THE NUT STATIONARY AND TIGHTEN THE BODY TO 15 IN LBS.

TIGHTEN →

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)



SMA Female Connector Clamp/Solder Attachment  
for RG55, RG58, RG141, RG142, RG223, RG303,  
RG400, PE-C195, PE-P195, LMR-195

## RF Connectors Technical Data Sheet

**PE4031**

SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 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.

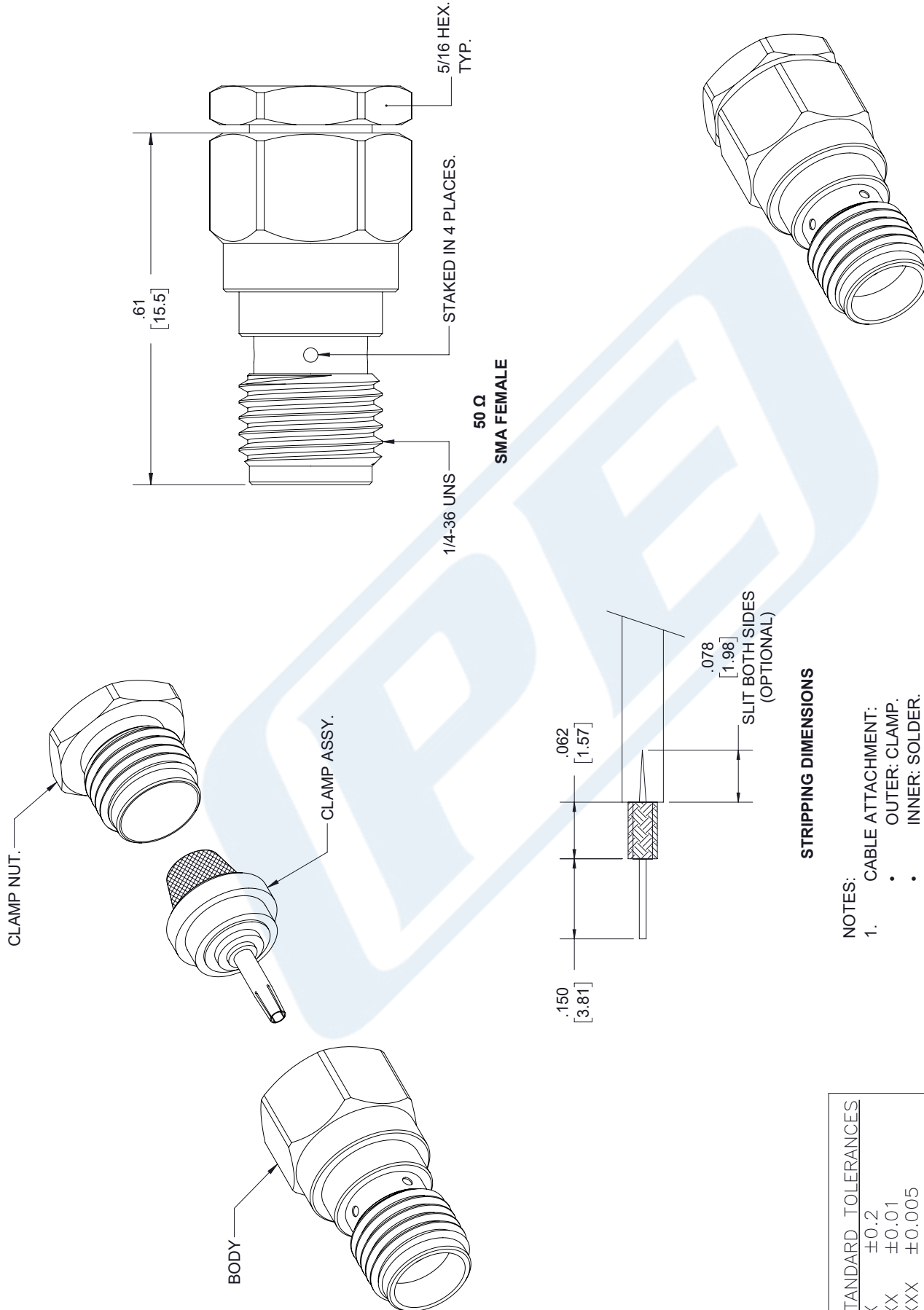
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# PE4031 CAD Drawing

SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195



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DWG TITLE

PE4031

CAGE CODE 53919

7361

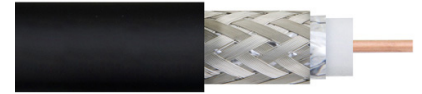
SIZE A

SCALE N/A

CAD FILE 12/13/18

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Website: www.pasternack.com | E-Mail: sales@pasternack.com

## Low Loss Flexible LMR-195-FR Fire Rated Coax Cable Double Shielded with Black FRPE Jacket



### LMR-195-FR



## Times Microwave Systems Connector Specification

### Configuration

- Low Loss, Fire Rated Flexible Cable
- 2 Shield(s)

### Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 76% VoP

### Applications

- Laboratory Applications
- General Purpose RF Interconnect

### Description

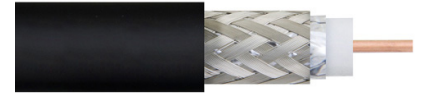
LMR-195-FR part number from Pasternack is a LMR-195-FR coax cable that is flexible. Pasternack LMR-195-FR flexible coax cable is 50 Ohm and has a PE dielectric. Our LMR-195-FR coax is constructed with a 0.195 jacket made of FRPE. LMR-195-FR coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-195-FR coax cable has an attenuation at 1 GHz of 11.8 dB.

Pasternack LMR-195-FR coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-195-FR cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-195-FR or other coax can be built and shipped same day as well.

### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units        |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                      | DC      |              | 8       | GHz          |
| Impedance                            |         | 50           |         | Ohms         |
| Velocity of Propagation              |         | 76           |         | %            |
| Time Delay                           |         | 1.27 [4.17]  |         | ns/ft [ns/m] |
| Shielding Effectiveness              | 90      |              |         | dB           |
| Dielectric Withstanding Voltage (DC) |         |              | 1,000   | Vdc          |
| Jacket Spark                         |         |              | 3,000   | Vrms         |
| Inner Conductor DC Resistance        |         |              | 7.6     | Ohms/1000ft  |
| Outer Conductor DC Resistance        |         |              | 4.9     | Ohms/1000ft  |
| Nominal Capacitance                  |         | 25.4 [83.33] |         | pF/ft [pF/m] |
| Nominal Inductance                   |         | 0.064 [0.21] |         | uH/ft [uH/m] |
| Input Power (Peak)                   |         |              | 2.5     | kWatts       |

## Low Loss Flexible LMR-195-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE Jacket



### LMR-195-FR

#### Performance by Frequency Band

| Description           | F1  | F2    | F3    | F4    | F5    | Units    |
|-----------------------|-----|-------|-------|-------|-------|----------|
| Frequency             | 50  | 150   | 220   | 450   | 900   | MHz      |
| Attenuation, Typ      | 2.5 | 4.4   | 5.4   | 7.8   | 11.1  | dB/100ft |
|                       | 8.2 | 14.44 | 17.72 | 25.59 | 36.42 | dB/100m  |
| Input Power (CW), Max | 680 | 390   | 320   | 220   | 160   | Watts    |

| Description           | F6    | F7    | F8    | F9    | F10  | Units    |
|-----------------------|-------|-------|-------|-------|------|----------|
| Frequency             | 1.5   | 1.8   | 2     | 2.5   | 5.8  | GHz      |
| Attenuation, Typ      | 14.5  | 16    | 16.9  | 19    | 29.9 | dB/100ft |
|                       | 47.57 | 52.49 | 55.45 | 62.34 | 98.1 | dB/100m  |
| Input Power (CW), Max | 120   | 110   | 100   | 90    | 60   | Watts    |

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.195 in [4.95 mm]       |
| Weight                          | 0.028 lbs/ft [0.04 kg/m] |
| Min. Bend Radius (Installation) | 0.5 in [12.7 mm]         |
| Min. Bend Radius (Repeated)     | 2 in [50.8 mm]           |
| Bending Moment                  | 0.2 lbs-ft [0.27 N-m]    |
| Tensile Strength                | 40 lbs [18.14 kg]        |
| Flat Plate Crush                | 15 lbs/in [0.27 kg/mm]   |

#### Construction Specifications

| Description     | Material and Plating | Diameter           |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, 1 Strand     | 0.037 in [0.94 mm] |
| Conductor Type  | Solid                |                    |
| Dielectric      | PE                   | 0.11 in [2.79 mm]  |
| First Shield    | Aluminum Tape        |                    |
| Second Shield   | Tinned Copper Braid  |                    |
| Jacket          | FRPE, Black          | 0.195 in [4.95 mm] |

#### Environmental Specifications

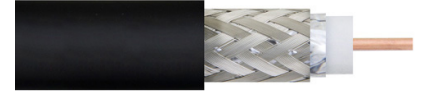
|                    |                 |
|--------------------|-----------------|
| <b>Temperature</b> |                 |
| Operating Range    | -40 to 85 deg C |
| Storage Range      | -70 to 85 deg C |

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

#### Plotted and Other Data

Notes:

## Low Loss Flexible LMR-195-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE Jacket



### LMR-195-FR

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URL: <https://www.pasternack.com/50-ohm-flexible-lmr-195-fr-frpe-jacket-aluminum-tape-over-tinned-copper-braid-outer-conductor-double-shielded-black-lmr-195-fr-p.aspx>

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## Low Loss Flexible LMR-195-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE Jacket

