

SMB Plug Right Angle to SMA Male Right Angle Cable 36 Inch Length Using ET38380 Coax with HeatShrink



# RF Cable Assemblies Technical Data Sheet

### ET30985

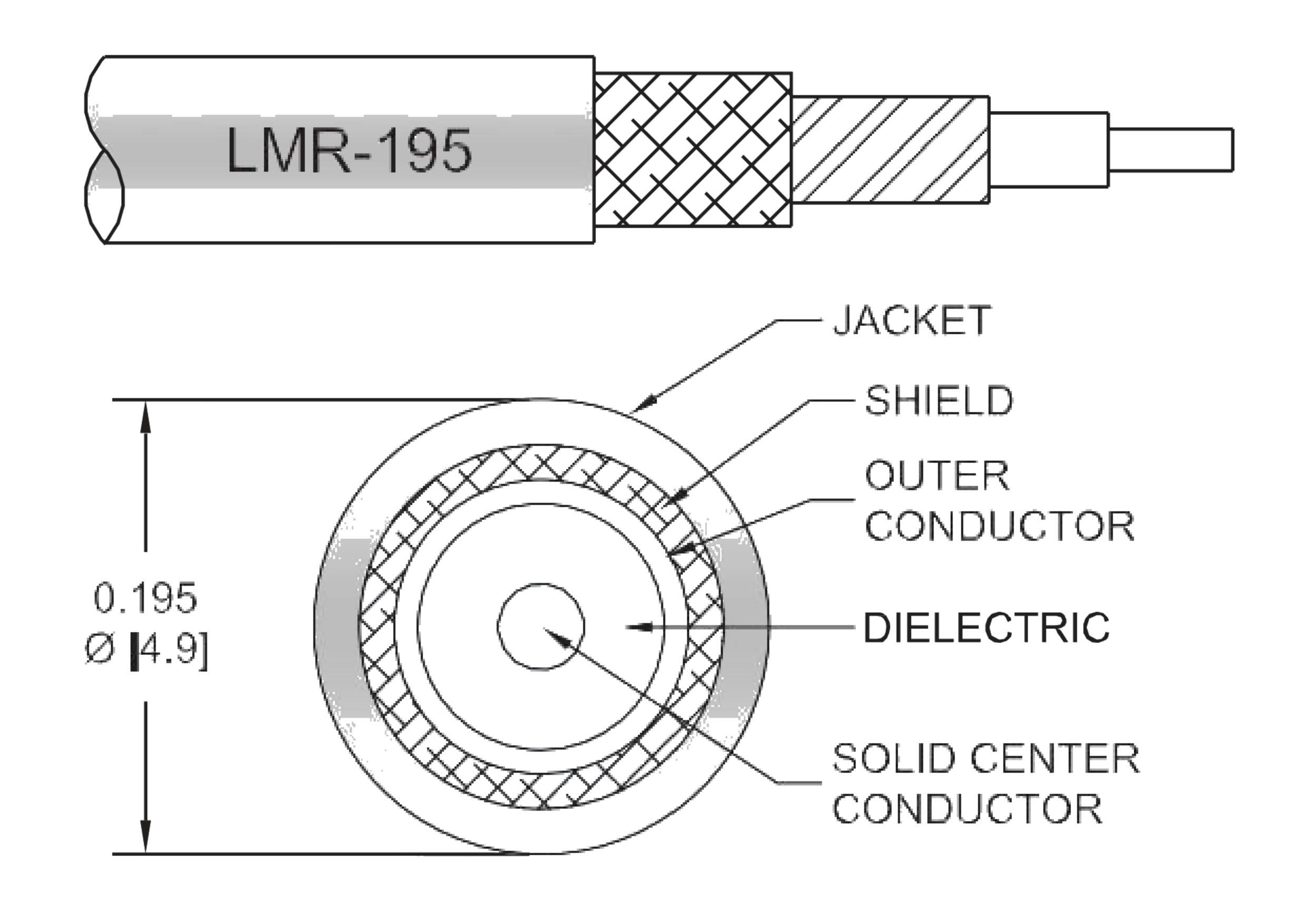
# Configuration

Connector 1: SMB Plug Right Angle
 Connector 2: SMA Male Right Angle

Cable Type: ET38380

### Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



# Applications

General Purpose

Laboratory Use

#### Description

Ebeestock's ET30985 SMB plug right angle to SMA male right angle 36 inch cable using ET38380 coax is part of our full line of RF components available for same-day shipping. Ebeestock's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Ebeestock SMB to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible ET38380 coax. The ET30985 SMB plug to SMA male cable assembly operates to 4 GHz. The right angle SMB and right angle SMA interfaces on the ET38380 cable allow for easier connections in tight spaces. The double shielding of this Ebeestock cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMB Plug Right Angle to SMA Male Right Angle Cable 36 Inch Length Using ET38380 Coax with HeatShrink ET30985



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### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units              |
|-------------------------------|---------|--------------|---------|--------------------|
| Frequency Range               | DC      |              | 4       | GHz                |
| VSWR                          |         |              | 1.4:1   |                    |
| Velocity of Propagation       |         | 80           |         | %                  |
| RF Shielding                  | 90      |              |         | dB                 |
| Group Delay                   |         | 1.27 [4.17]  |         | ns/ft [ns/m]       |
| Capacitance                   |         | 25.4 [83.33] |         | pF/ft [pF/m]       |
| Inductance                    |         | 0.064 [0.21] |         | uH/ft [uH/m]       |
| DC Resistance Inner Conductor |         | 7.6 [24.93]  |         | Ohms/1000ft [Ohms/ |
| Km]                           |         |              |         |                    |
| DC Resistance Outer Conductor |         | 4.9 [16.08]  |         | Ohms/1000ft [Ohms/ |
| Km]                           |         |              |         |                    |
| Jacket Spark                  |         |              | 3,000   | Vrms               |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 4    | GHz   |
| Insertion Loss (Max.) | 0.57 | 0.65 | 0.75 | 0.97 | 1.02 | dB    |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.4dB of connectro loss.

## Mechanical Specifications

### Cable Assembly

Length\*

36 in [914.4 mm]

Diameter

0.315 in [8 mm]

### Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

ET38380
50 Ohms
Copper
PE (F)

Shield Layer 1
Aluminum Tape
Shield Layer 2
Tinned Copper Braid

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Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment
Flat Plate Crush
Tensile Strength

PE, Black 0.195 in [4.95 mm]

0.5 in [12.7 mm] 2 in [50.8 mm] 0.2 lbs-ft [0.27 N-m] 15 lbs/in [0.27 Kg/mm]

40 lbs [18.14 Kg]

### Connectors

| Description                        | Connector 1            | Connector 2          |  |
|------------------------------------|------------------------|----------------------|--|
| Type                               | SMB Plug Right Angle   | SMA Male Right Angle |  |
| Specification                      | MIL-STD-348A           | MIL-STD-348A         |  |
| Impedance                          | 50 Ohms                | 50 Ohms              |  |
| Contact Material and Plating       | Beryllium Copper, Gold | Brass, Gold          |  |
| Contact Plating Specification      | 30 µin minimum         | 50 μin minimum       |  |
| Dielectric Type                    | PTFE                   | PTFE                 |  |
| Body Material and Plating          | Brass, Nickel          | Brass, Nickel        |  |
| Body Plating Specification         | 100 μin minimum        | 100 μin minimum      |  |
| Coupling Nut Material and Plating  |                        | Brass, Nickel        |  |
| Coupling Nut Plating Specification |                        | 100 μin minimum      |  |
| Hex Size                           |                        | 5/16 inch            |  |
| Torque                             |                        | 3 in-lbs [0.34 Nm]   |  |
|                                    |                        |                      |  |

Mechanical Specification Notes:

# Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.



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#### How to Order

Example: ET3W06735/HS-12 = 12 inches long cable

ET3W06735/HS-100cm = 100 cm long cable

SMB Plug Right Angle to SMA Male Right Angle Cable 36 Inch Length Using ET38380 Coax with HeatShrink from Ebeestock 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.ebeestock.com/smb-plug-right-angle-to-sma-male-right-angle-cable-12-inch-lengt h-using-lmr-195-coax-with-heatshrink-0030983

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. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

