

Coaxial Cable Assembly, 1.85 mm (M) ST. to 1.85 mm (M) ST. Flexible 047, Phase Matched Cable

Package Contents

| | |
|----------------|-------|
| Cable | 1 Pc |
| Protection Cap | 2 Pcs |

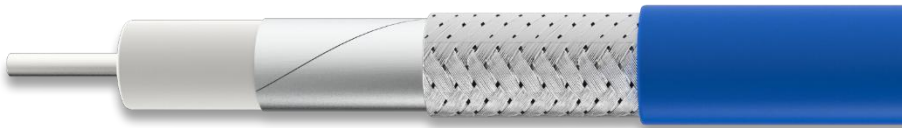
Cable Configuration

| | |
|---------------|--------------|
| Connector 1 | 1.85 mm Male |
| Connector 2 | 1.85 mm Male |
| Type of Cable | 047 Flexible |

Materials

| Description | Material | Finish |
|----------------|---------------------|-------------|
| Center Pin | Beryllium Copper | Gold Plated |
| Connector Body | Stainless Steel | Passivated |

SPC Solid PTFE Helically Wrapped Shield Braided Shield FEP Jacket



Mechanical Specifications

| | |
|------------------------|-------------------------------|
| Shield Diameter | 0.047 inch (1.19 mm) |
| Durability | Bend Flex Test: >2000 Cycles |
| | Pull Out Test: 10 lbs minimum |
| Minimum Bending Radius | Static: 7 mm |
| | Dynamic: 15 mm |

Environmental Specifications

| | |
|-----------------------------|----------------|
| Operating Temperature Range | -45 to +200 °C |
|-----------------------------|----------------|



Features:

- High Performance Low Loss Cables
- Phase Stable Assemblies
- Time delay matched to +/- 0.5 ps or +/-0.15 ps
- Robust Precision Connectors Termination
- High Flex Cycles

Applications:

- High Speed IO Test Setup: Instrumentation Connection to DUT Eval Boards
- Pairs Well with Multilane Data Center Test Solutions such as MCB and HCB test Fixtures



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Electrical Specifications

| | |
|-------------------------|--------------------|
| Impedance | 50 Ohms |
| Frequency Range | DC to 67 GHz |
| V.S.W.R. | 1.3 max. at 67 GHz |
| Velocity of Propagation | 80% |

| Cable Length | Measured Insertion Loss | | | |
|--------------|-------------------------|-------------|-------------|-------------|
| | (at 12.5 GHz) | (at 26 GHz) | (at 53 GHz) | (at 67 GHz) |
| 15 cm | -0.82 dB | -1.2 dB | -1.88 dB | -2.2 dB |
| 21 cm | -1.11 dB | -1.6 dB | -2.52 dB | -2.96 dB |
| 25 cm | -1.30 dB | -1.86 dB | -2.96 dB | -3.48 dB |
| 30 cm | -1.55 dB | -2.2 dB | -3.5 dB | -4.12 dB |
| 35 cm | -1.79 dB | -2.53 dB | -4.04 dB | -4.76 dB |
| 60 cm | -3.01 dB | -4.20 dB | -6.74 dB | -7.96 dB |
| 100 cm | -4.95 dB | -6.86 dB | -11.06 dB | -13.08 dB |

How to Order:

Customer Part Number: MLCC-185MST-F047**ZZ**-185MST-**Y-X**

Length in cm

Phase Matched Cable Sets

null: single cable

| | |
|---|------------------------------|
| 03 : skew \leq 0.3 ps (phase match \pm 0.15 ps) | 2 : set of 2 cables |
| 1 : skew \leq 1 ps (phase match \pm 0.5 ps) | 4 : set of 4 cables |
| | 8 : set of 8 cables |
| | 16 : set of 16 cables |
| | 32 : set of 32 cables |

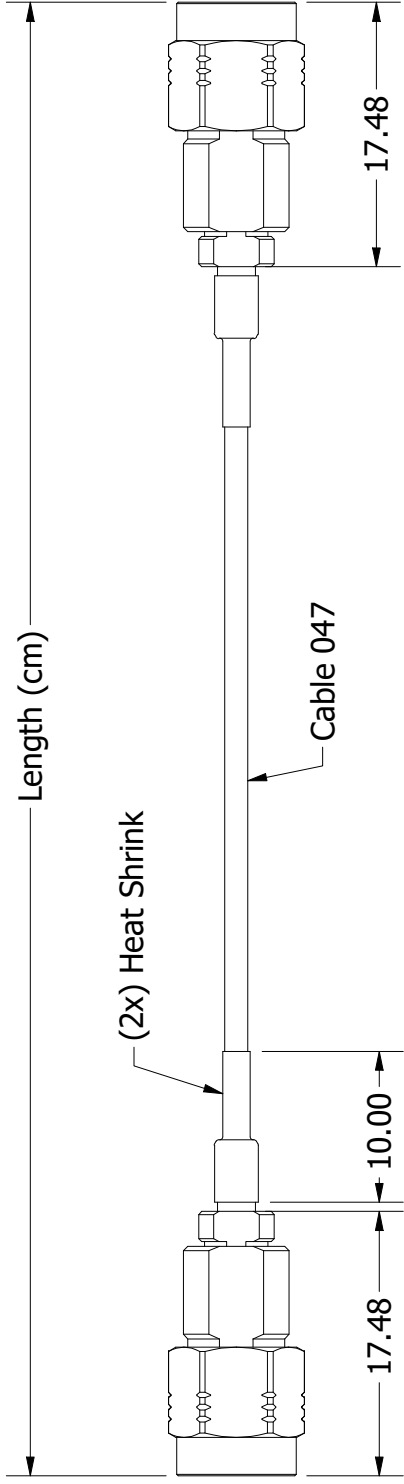
Example:

PN: MLCC-185MST-F04715-185MST-1-4

Description: Coaxial Cable Assembly, 1.85 mm (M) ST. to 1.85 mm (M) ST., 15 cm, Flexible 047, Phase Matched to \pm 0.5 ps, set of 4 Cables.

CAD Drawing

MLCC-185MST-F047ZZ-185MST



1.85 mm Male

1.85 mm Male

Title:

Coaxial Cable Assembly, 1.85 mm (M) ST. to
1.85 mm (M) ST., Flexible 047, Phase
Matched Cable

Notes:

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.

Rev: A

Scale: 2:1

multiLane

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