# E15 Series (1.85mm Male-ST to 1.85mm Male-ST)

.070 Semi-rigid Cable Assembly, 50ohms, DC-67GHz

## E15-0P-0P-"L" (L: Length)

**Maximum Ratings**

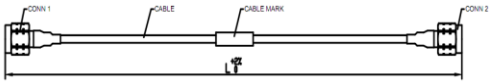
Operating Temperature -55°C to +125°C

Storage Temperature -55°C to +125°C

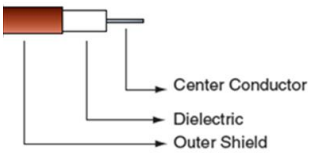
*Permanent damage may occur if any of these limits are exceeded*

| | | |
|---|---|---|
| Outer Diameter | | 2.0 mm |
| Velocity of Propagation | | 76% |
| Shielding Effectiveness | | >120dB |
| Power Handling at 40°C | 6 GHz | 52W |
| | 18 GHz | 29W |
| | 26.5 GHz | 22W |
| | 40 GHz | 18W |
| | 50 GHz | 11W |
| | 67 GHz | 5W |
| Min. Bending Radius | | 10mm |

**Outline Drawing**




**Cable Construction**




| Cable Construction | |
|---|---|
| Inner Conductor | Solid SPC |
| Dielectric | PTFE |
| OuterConductor | Tin or Ternary Alloy Plated Copper |
| | |
| | |

| Connectors |
|---|
| • Nut, Stainless steel, Passivated |
| • Body, Stainless steel, Passivated |
| • Center contacts, Berillium, Gold plated |
| • Dielectric, PEI |

Product Guarantee*

Micable will repair or replace your cable assembly if it fails within six months after shipment. This guarantee excludes product damage from misuse or abuse

**Features**

- Movable connector nut for quick installation and avoiding center contact from damage
- No wrinkle on the surface after bent
- Frequency DC-67GHz
- Excellent return loss
- High shielding effectiveness > 120 dB
- Low loss: cable insertion loss <6.2dB/m@67GHz
- 3-D bending without MOQ
- Phase-matching available

**Applications**

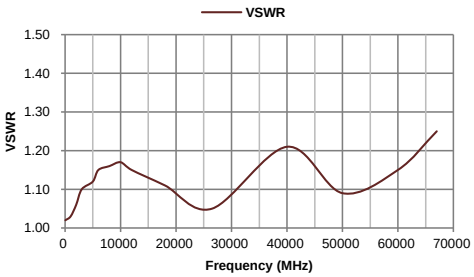
- Modules connection in receivers and transmitters
- Panel mounting
- Test equipment
- Military and commercial systems

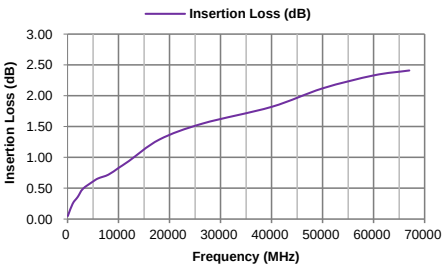
**Electrical Specifications at 25°C**

| Freq. (GHz) | Length (m) | Insertion Loss (dB@GHz) | | | | | | | | VSWR (@GHz) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DC - 18 | | 18-40 | | 40-50 | | 50-67 | | DC - 18 | | 18-40 | | 40-50 | | 50-67 | |
| | | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. | Typ. | Max. |
| DC-40 | 0.1 | 0.6 | 0.7 | 0.9 | 1.0 | 1.0 | 1.2 | 1.3 | 1.5 | | | | | | | | |
| | 0.2 | 0.9 | 1 | 1.3 | 1.5 | 1.6 | 1.8 | 1.9 | 2.1 | 1.17 | 1.25 | 1.21 | 1.30 | 1.21 | 1.30 | 1.25 | 1.35 |
| | 0.3 | 1.3 | 1.4 | 1.8 | 2.0 | 2.1 | 2.3 | 2.4 | 2.7 | | | | | | | | |

**Typical Performance Data（E15-0P-0P-0.3M)**

| Frequency(MHz) | VSWR | Insertion Loss (dB) |
|---|---|---|
| 50 | 1.02 | 0.05 |
| 1000 | 1.03 | 0.25 |
| 2000 | 1.06 | 0.36 |
| 3000 | 1.10 | 0.49 |
| 5000 | 1.12 | 0.61 |
| 6000 | 1.15 | 0.66 |
| 8000 | 1.16 | 0.72 |
| 10000 | 1.17 | 0.83 |
| 12000 | 1.15 | 0.94 |
| 18000 | 1.11 | 1.29 |
| 26500 | 1.05 | 1.55 |
| 40000 | 1.21 | 1.82 |
| 50000 | 1.09 | 2.12 |
| 60000 | 1.15 | 2.33 |
| 67000 | 1.25 | 2.41 |

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