

CF085-50

Base Product

CF085-50, 50 Ohm Conformable Braided Coaxial Cable, variable length, unjacketed

Product Classification

| | |
|-----------------------|-----------------------|
| Product Type | Braided coaxial cable |
| Product Series | CF085-50 |

General Specifications

| | |
|-----------------------|-------------|
| Braid Coverage | 100 % |
| Cable Type | Conformable |

Dimensions

| | |
|---------------------------------|--------------------|
| Diameter Over Dielectric | 1.65 mm 0.065 in |
| Inner Conductor OD | 0.53 mm 0.021 in |
| Outer Conductor OD | 2.15 mm 0.085 in |

Electrical Specifications

| | |
|---------------------------------|------------------------|
| Cable Impedance | 50 ohm |
| Capacitance | 95 pF/m 28.956 pF/ft |
| dc Test Voltage | 1900 V |
| Maximum Frequency | 18 GHz |
| Operating Frequency Band | 30 – 18000 MHz |
| Shielding Effectiveness | 100 dB |
| Velocity | 70 % |

Attenuation

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------------|------------------------|-------------------------|
| 100.0 | 22 | 6.707 |
| 200.0 | 32 | 9.756 |
| 300.0 | 41 | 12.5 |
| 400.0 | 47 | 14.329 |
| 500.0 | 55 | 16.769 |
| 600.0 | 59 | 17.99 |
| 700.0 | 65 | 19.82 |

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| | | |
|---------|-----|-------|
| 800.0 | 70 | 21.34 |
| 900.0 | 75 | 22.87 |
| 1000.0 | 78 | 23.78 |
| 1500.0 | 100 | 30.49 |
| 1800.0 | 109 | 33.23 |
| 1900.0 | 111 | 33.84 |
| 2000.0 | 113 | 34.45 |
| 2100.0 | 115 | 35.06 |
| 2400.0 | 120 | 63.59 |
| 3000.0 | 147 | 44.82 |
| 4000.0 | 170 | 51.83 |
| 5000.0 | 178 | 54.27 |
| 5800.0 | 215 | 65.55 |
| 6000.0 | 220 | 67.07 |
| 8000.0 | 260 | 79.27 |
| 9000.0 | 277 | 84.45 |
| 10000.0 | 293 | 89.33 |

Material Specifications

| | |
|---------------------------------|---------------------------|
| Braid Material | Tin-soaked copper |
| Dielectric Material | PTFE |
| Jacket Material | Unjacketed |
| Inner Conductor Material | Silver-plated copper wire |

Mechanical Specifications

| | |
|---|--------------------|
| Minimum Bend Radius, single Bend | 6.096 mm 0.24 in |
|---|--------------------|

Environmental Specifications

| | |
|---------------------------------|---------------------------------------|
| Installation temperature | -55 °C to +125 °C (-67 °F to +257 °F) |
| Operating Temperature | -55 °C to +125 °C (-67 °F to +257 °F) |
| Storage Temperature | -55 °C to +125 °C (-67 °F to +257 °F) |

Packaging and Weights

| | |
|-----------------------|-------------------------|
| Cable weight | 0.02 kg/m 0.013 lb/ft |
| Packaging Type | Reel |

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Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system