

Product Specifications

EMR-240

50 Ohm Braided Coaxial Cable, black PE jacket



Construction Materials

| | |
|--------------------------|--------------------|
| Jacket Color | Black |
| Jacket Material | Non-halogenated PE |
| Braid Material | Tinned copper |
| Shield Tape Material | Aluminum |
| Dielectric Material | Foam PE |
| Inner Conductor Material | Copper |

Dimensions

| | |
|--------------------------|-----------------------|
| Cable Weight | 0.03 kg/m |
| Diameter Over Dielectric | 3.810 mm 0.150 in |
| Diameter Over Jacket | 6.100 mm 0.240 in |
| Inner Conductor OD | 1.4200 mm 0.0559 in |
| Nominal Size | 0.240 in |
| Outer Conductor OD | 4.520 mm 0.178 in |

Electrical Specifications

| | |
|---------------------------------|---------------------------------|
| Cable Impedance | 50 ohm |
| Capacitance | 79.8 pF/m 24.4 pF/ft |
| dc Resistance, Inner Conductor | 11.100 ohms/km 3.384 ohms/kft |
| dc Resistance, Outer Conductor | 12.760 ohms/km 3.890 ohms/kft |
| dc Test Voltage | 1500 V |
| Jacket Spark Test Voltage (rms) | 5000 V |
| Maximum Frequency | 31.00 GHz |
| Operating Frequency Band | 30 – 6000 MHz |
| Peak Power | 5.6 kW |
| Shielding Effectiveness | >90 dB |
| Velocity | 83% |

Environmental Specifications

| | |
|--------------------------|--------------------------------------|
| Installation Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Operating Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Storage Temperature | -70 °C to +85 °C (-94 °F to +185 °F) |

Product Specifications

General Specifications

| | |
|----------------|-----------|
| Cable Type | EMR-240 |
| Braid Coverage | 90% braid |
| Brand | ECore |
| Packaging Type | Reel |

Mechanical Specifications

| | |
|----------------------------------|------------------------|
| Bending Moment | 0.3 N-m 0.3 ft lb |
| Flat Plate Crush Strength | 0.4 kg/mm 20.0 lb/in |
| Minimum Bend Radius, Single Bend | 19.10 mm 0.75 in |
| Tensile Strength | 36 kg 80 lb |

Electrical Performance

| Frequency | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------|------------------------|-------------------------|
| 30 MHz | 4.90 | 1.50 |
| 50 MHz | 6.20 | 1.90 |
| 150 MHz | 10.20 | 3.10 |
| 220 MHz | 12.50 | 3.80 |
| 450 MHz | 17.40 | 5.30 |
| 900 MHz | 24.90 | 7.60 |
| 1500 MHz | 32.80 | 10.00 |
| 1800 MHz | 36.40 | 11.10 |
| 2000 MHz | 38.70 | 11.80 |
| 2400 MHz | 42.98 | 13.10 |
| 2500 MHz | 44.00 | 13.40 |
| 3000 MHz | 48.90 | 14.90 |
| 4000 MHz | 57.74 | 17.60 |
| 4500 MHz | 62.01 | 18.90 |
| 5000 MHz | 66.27 | 20.20 |
| 5200 MHz | 67.91 | 20.70 |
| 5500 MHz | 70.21 | 21.40 |
| 5800 MHz | 72.51 | 22.10 |
| 6000 MHz | 73.82 | 22.50 |

Regulatory Compliance/Certifications

| Agency | Classification |
|----------------------------|--|
| RoHS 2002/95/EC | Compliant |
| China RoHS SJ/T 11364-2006 | Below Maximum Concentration Value (MCV) |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |

