



AMC-316 | 4697803/10

AMC-316 50 Ohm Coaxial Cable, black PE jacket with coextruded brown stripe

Construction Materials

| | |
|---------------------------|--------------------|
| Center Conductor Material | Bare copper |
| Dielectric Material | PE |
| Shield (Braid) Coverage | 93 % |
| Shield (Braid) Material | Tinned copper |
| Shield (Tape) Material | Aluminum, unbonded |
| Jacket Material | PE |

Dimensions

| | |
|--|-----------------------|
| Cable Length | 305 m 1000 ft |
| Cable Weight | 8.20 lb/kft |
| Diameter Over Center Conductor | 0.4636 mm 0.0183 in |
| Diameter Over Center Conductor Tolerance | ±0.00015 in |
| Diameter Over Dielectric | 1.5240 mm 0.0600 in |
| Diameter Over Dielectric Tolerance | ±0.003 in |
| Diameter Over Jacket | 2.794 mm 0.110 in |
| Diameter Over Jacket Tolerance | ±0.008 in |
| Diameter Over Outer Shield (Braid) | 2.032 mm 0.080 in |

Electrical Specifications

| | |
|------------------------------------|-------------------------|
| Capacitance, maximum | 105.6 pF/m 32.2 pF/ft |
| Characteristic Impedance | 50 ohm |
| Characteristic Impedance Tolerance | ±3 ohm |
| Conductor dc Resistance | 31.00 ohms/kft |
| Conductor dc Resistance, maximum | 35.00 ohms/kft |
| Dielectric Strength | 3 s @ 2500 Vdc |
| Jacket Spark Test Voltage | 2500 V |
| Shield dc Resistance | 7.90 ohms/kft |
| Velocity | 66 % |

Environmental Specifications

| | |
|-----------------------|--------------------------------------|
| Operating Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
|-----------------------|--------------------------------------|

General Specifications

| | |
|--------------|-------------------------------------|
| Application | Automotive |
| Cable Type | AMC-316 |
| Jacket Color | Black with co-extruded brown stripe |
| Brand | Auto Mobile Cable® |

Electrical Performance

| Frequency | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------|------------------------|-------------------------|
| 200 MHz | 34.10 | 10.40 |

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| | | |
|----------|--------|-------|
| 900 MHz | 79.40 | 24.40 |
| 1400 MHz | 101.30 | 30.90 |
| 1800 MHz | 115.80 | 35.30 |
| 2300 MHz | 131.20 | 40.00 |
| 2500 MHz | 140.70 | 42.90 |

* Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)

* Electrical specifications/performance listed represents values at standard condition of 20 °C (68 °F)

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |