AMC-316 Bk-Br Str | 4697873/95

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

Product Classification

Portfolio | CommScope®
Brand | Auto Mobile Cable™
Product Type | Coaxial automotive cable
Regional Availability | Asia | Australia/New Zealand | EMEA | Latin America | North America

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 Tolerance | ±0.008 in
Diameter Over Jacket, nominal | 2.794 mm | 0.110 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 at Voltage | 3 s @ 2,500 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

Cable Type
AMC-316

Jacket Color
Black with co-extruded brown stripe

Supported Application
Automotive

Electrical Performance

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 MHz</td>
<td>34.10</td>
<td>10.40</td>
</tr>
<tr>
<td>900 MHz</td>
<td>79.40</td>
<td>24.40</td>
</tr>
<tr>
<td>1400 MHz</td>
<td>101.30</td>
<td>30.90</td>
</tr>
<tr>
<td>1800 MHz</td>
<td>115.80</td>
<td>35.30</td>
</tr>
<tr>
<td>2300 MHz</td>
<td>131.20</td>
<td>40.00</td>
</tr>
<tr>
<td>2500 MHz</td>
<td>140.70</td>
<td>42.90</td>
</tr>
</tbody>
</table>

*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
ISO 9001:2015

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