AMC-316 50 Ohm Coaxial Cable, black PE jacket with coextruded yellow 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**  | 3048 m | 10000 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**  | ±0.004 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 yellow 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