AMC-174 Low Loss 50 Ohm Coaxial Cable, black PE jacket

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
Copper-clad steel wire

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
0.4597 mm | 0.0181 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
103.3 pF/m | 31.5 pF/ft

Characteristic Impedance
50 ohm

Characteristic Impedance Tolerance
±3 ohm

Conductor dc Resistance
77.00 ohms/kft

Conductor dc Resistance, maximum
88.00 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-174

Jacket Color  
Black

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>34.40</td>
<td>10.48</td>
</tr>
<tr>
<td>400 MHz</td>
<td>49.60</td>
<td>15.11</td>
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<tr>
<td>700 MHz</td>
<td>67.20</td>
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<td>900 MHz</td>
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<td>1200 MHz</td>
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<tr>
<td>1400 MHz</td>
<td>101.20</td>
<td>30.87</td>
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<tr>
<td>1600 MHz</td>
<td>109.90</td>
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<td>1800 MHz</td>
<td>115.70</td>
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<td>2000 MHz</td>
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<tr>
<td>2300 MHz</td>
<td>131.20</td>
<td>40.00</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