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

Product Classification

Regional Availability
- Asia
- Australia/New Zealand
- EMEA
- Latin America
- North America

Portfolio
CommScope®

Product Type
Coaxial automotive cable

Product Brand
Auto Mobile Cable®

General Specifications

Cable Type
AMC-174

Jacket Color
Black

Supported Application
Automotive

Dimensions

Cable Length
304.8 m | 1000 ft

Diameter Over Center Conductor
0.46 mm | 0.018 in

Diameter Over Center Conductor Tolerance
±0.00015 in

Diameter Over Dielectric
1.524 mm | 0.06 in

Diameter Over Dielectric Tolerance
±0.003 in

Diameter Over Jacket Tolerance
±0.008 in

Diameter Over Jacket, nominal
2.794 mm | 0.11 in

Diameter Over Outer Shield (Braid)
2.032 mm | 0.08 in

Electrical Specifications

Capacitance
103.346 pF/m | 31.5 pF/ft

Characteristic Impedance
50 ohm

Characteristic Impedance Tolerance
±3 ohm

Conductor dc Resistance
252.625 ohms/km | 77 ohms/kft
Conductor dc Resistance, maximum 288.714 ohms/km | 88 ohms/kft
Dielectric Strength at Voltage 3 s @ 2,500 Vdc
Jacket Spark Test Voltage 2500 V
Shield dc Resistance 25.919 ohms/km | 7.9 ohms/kft
Velocity 66%

Attenuation

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
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</thead>
<tbody>
<tr>
<td>200.0</td>
<td>34.4</td>
<td>10.48</td>
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<tr>
<td>400.0</td>
<td>49.6</td>
<td>15.11</td>
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<tr>
<td>700.0</td>
<td>67.2</td>
<td>20.5</td>
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<tr>
<td>900.0</td>
<td>79.5</td>
<td>24.24</td>
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<td>1000.0</td>
<td>84.3</td>
<td>25.71</td>
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<td>1200.0</td>
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<td>101.2</td>
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<td>1800.0</td>
<td>115.7</td>
<td>35.27</td>
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<tr>
<td>2000.0</td>
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<td>37.5</td>
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<tr>
<td>2300.0</td>
<td>131.2</td>
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</tbody>
</table>

Material Specifications

Center Conductor Material Copper-clad steel wire
Dielectric Material PE
Jacket Material PE
Shield (Braid) Coverage 93%
Shield (Braid) Material Tinned copper
Shield (Tape) Material Aluminum, unbonded

Environmental Specifications

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

Packaging and Weights

Cable weight 12.203 kg/km | 8.2 lb/kft
## Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
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<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
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<td>REACH-SVHC</td>
<td>Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a></td>
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<td>ROHS</td>
<td>Compliant</td>
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