AMC-71 125 Ohm Coaxial Cable, black PVC 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-71

Jacket Color
Black

Supported Application
Automotive

Dimensions

- Diameter Over Center Conductor: 0.361 mm | 0.014 in
- Diameter Over Center Conductor Tolerance: ±0.00015 in
- Diameter Over Dielectric: 3.708 mm | 0.146 in
- Diameter Over Dielectric Tolerance: ±0.005 in
- Diameter Over Jacket Tolerance: ±0.007 in
- Diameter Over Jacket, nominal: 6.223 mm | 0.245 in
- Diameter Over Outer Shield (Braid): 5.004 mm | 0.197 in
- Jacket Thickness: 0.508 mm | 0.02 in

Electrical Specifications

- Capacitance: 31.168 pF/m | 9.5 pF/ft
- Capacitance Tolerance: ±0.75 pF/ft
- Characteristic Impedance: 125 ohm
- Characteristic Impedance Tolerance: ±10 ohm
Conductor dc Resistance | 406.824 ohms/km | 124 ohms/kft
Conductor dc Resistance, maximum | 429.79 ohms/km | 131 ohms/kft
Dielectric Strength at Voltage | 3 s @ 2,500 Vdc
Jacket Spark Test Voltage | 2000 V
Operating Frequency, maximum | 3000 MHz
Shield dc Resistance | 4.528 ohms/km | 1.38 ohms/kft
Velocity | 86 %

Attenuation

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.0</td>
<td>8.2</td>
<td>2.5</td>
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<tr>
<td>88.7</td>
<td>11.45</td>
<td>3.49</td>
</tr>
<tr>
<td>100.0</td>
<td>12.3</td>
<td>3.75</td>
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<tr>
<td>108.0</td>
<td>12.88</td>
<td>3.93</td>
</tr>
<tr>
<td>170.0</td>
<td>16.99</td>
<td>5.18</td>
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<tr>
<td>200.0</td>
<td>18.8</td>
<td>5.73</td>
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</tbody>
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Material Specifications

Center Conductor Material | Copper-clad steel wire
Dielectric Material | Foam PE
Jacket Material | PVC
Inner Shield (Braid) Coverage | 94 %
Outer Shield (Braid) Coverage | 88 %
Shield (Braid) Material | Bare copper
Shield (Tape) Material | No tape

Mechanical Specifications

Minimum Bend Radius Note | 5 times the outer cable diameter
Minimum Bend Radius, loaded, times | 5 times

Environmental Specifications

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

Packaging and Weights
### Cable weight

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<tbody>
<tr>
<td>61.015 kg/km</td>
<td>41 lb/kft</td>
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### Regulatory Compliance/Certifications

<table>
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<tr>
<th>Agency</th>
<th>Classification</th>
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<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
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