

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



### Product Classification

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

### General Specifications

<b>Cable Type</b>	AMC-174
<b>Jacket Color</b>	Black
<b>Supported Application</b>	Automotive

### Dimensions

<b>Cable Length</b>	304.8 m   1000 ft
<b>Diameter Over Center Conductor</b>	0.46 mm   0.018 in
<b>Diameter Over Center Conductor Tolerance</b>	±0.00015 in
<b>Diameter Over Dielectric</b>	1.524 mm   0.06 in
<b>Diameter Over Dielectric Tolerance</b>	±0.003 in
<b>Diameter Over Jacket Tolerance</b>	±0.008 in
<b>Diameter Over Jacket, nominal</b>	2.794 mm   0.11 in
<b>Diameter Over Outer Shield (Braid)</b>	2.032 mm   0.08 in

### Electrical Specifications

<b>Capacitance</b>	103.346 pF/m   31.5 pF/ft
<b>Characteristic Impedance</b>	50 ohm
<b>Characteristic Impedance Tolerance</b>	±3 ohm
<b>Conductor dc Resistance</b>	252.625 ohms/km   77 ohms/kft

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

## Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
200.0	34.4	10.48
400.0	49.6	15.11
700.0	67.2	20.5
900.0	79.5	24.24
1000.0	84.3	25.71
1200.0	92.5	28.19
1400.0	101.2	30.87
1600.0	109.9	33.5
1800.0	115.7	35.27
2000.0	123	37.5
2300.0	131.2	40

## Material Specifications

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

## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
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## Packaging and Weights

<b>Cable weight</b>	12.203 kg/km   8.2 lb/kft
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## Regulatory Compliance/Certifications

**Agency****Classification**

CHINA-ROHS

Below maximum concentration value

ISO 9001:2015

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

REACH-SVHC

Compliant as per SVHC revision on [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)

ROHS

Compliant

