4697103/10 | AMC-174 Low Loss

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

Electrical Specifications

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

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

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	8.2 lb/kft | 1.134 kg/km

Regulatory Compliance/Certifications

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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
ROHS	Compliant

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