Product Specifications

COMMSCOPE®

AMC-174 Low Loss | 4697103/10

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

Product Classification

Portfolio	CommScope®
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	2.794 mm | 0.110 in
Diameter Over Jacket Tolerance	±0.008 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	3 s @ 2500 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

Application	Automotive
Cable Type	AMC-174
Jacket Color	Black

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Brand	Auto Mobile Cable®

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
200 MHz	34.40	10.48
400 MHz	49.60	15.11
700 MHz	67.20	20.50
900 MHz	79.50	24.24
1000 MHz	84.30	25.71
1200 MHz	92.50	28.19
1400 MHz	101.20	30.87
1600 MHz	109.90	33.50
1800 MHz	115.70	35.27
2000 MHz	123.00	37.50
2300 MHz	131.20	40.00

** 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	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

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