4697803/10 | AMC-316

AMC-316 50 Ohm Coaxial Cable, black PE jacket with coextruded brown stripe

OBSOLETE

This product was discontinued on: April 26, 2022

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-316
Jacket Color	Black with co-extruded brown stripe
Supported Application	Automotive

Dimensions

Cable Length	304.8 m	1000 ft
Diameter Over Center Conductor	0.465 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, nominal	2.794 mm	0.11 in
Diameter Over Jacket Tolerance	±0.008 in
Diameter Over Outer Shield (Braid)	2.032 mm	0.08 in

Electrical Specifications

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Capacitance, maximum	105.643 pF/m	32.2 pF/ft
Characteristic Impedance	50 ohm
Characteristic Impedance Tolerance	±3 ohm
Conductor dc Resistance	101.706 ohms/km	31 ohms/kft
Conductor dc Resistance, maximum	114.829 ohms/km	35 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

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
200.0	34.1	10.4
900.0	79.4	24.4
1400.0	101.3	30.9
1800.0	115.8	35.3
2300.0	131.2	40
2500.0	140.7	42.9

Material Specifications

Center Conductor Material	Bare copper
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

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Agency   **Classification**

ISO 9001:2015   Designed, manufactured and/or distributed under this quality management system

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