

412M

412 Seamless Aluminum Tube Cable With Messenger,Black PE Jacket.



Material Specification

Inner Conductor	Copper Clad Aluminum	2.24±0.03 mm
Dielectric	Foam Polyethylene	9.19±0.10 mm
Outer Conductor	Extruded Aluminum Tube	10.46±0.10 mm
Messenger Wire	Galvanized Steel	2.10±0.03 mm
Jacket	PE	11.99±0.20 mm
Outer Conductor Thickness, nom	——	0.64 mm
Jacket Thickness ,min	——	0.51 mm

Electrical Specification

Characteristic Impedance	75±2 Ω	
Velocity of Propagation	87%	
Capacitance	50.2 PF/m	
Jacket Spark Test Voltage	5 KV	
Operating Frequency Band	5-1002 MHz	
DC Resistance, Inner Conductor, max	7.12 Ω/km	2.17 Ω/kft
DC Resistance,Out conductor, max	1.77 Ω/km	0.50 Ω/kft
DC Resistance,Loop , max	8.89 Ω/km	2.67 Ω/kft
SRL min	5-1002 MHz	30 dB

Mechanical Specifications

Jacket Tensile,min	10.3 MPa
Jacket Elongation,min	400%

Environmental Specifications

Installation Temperature	-55°C~+85°C
Operating Temperature	-40°C~+60°C
Storage Temperature	-55°C~+85°C
RoHS 2011/65/EU	Compliant

Attenuation @ 20°C max

Frequency, MHz	dB/100ft	dB/100m	Frequency, MHz	dB/100ft	dB/100m
5	0.20	0.66	400	1.91	6.27
55	0.68	2.23	450	2.05	6.72
211	1.35	4.43	500	2.16	7.08
250	1.49	4.89	550	2.26	7.41
270	1.55	5.09	600	2.37	7.76
300	1.64	5.38	750	2.68	8.79
330	1.73	5.67	870	2.91	9.54
350	1.78	5.84	1002	3.13	10.27