

12C-TC

12C-TC Seamless Aluminum Tube Cable, Black PE Jacket.



Material Specification

Inner Conductor	Bare copper	2.86±0.08 mm
Dielectric	Foam Polyethylene	11.48±0.10 mm
Outer Conductor	Extruded Aluminum Tube	12.7±0.10 mm
Jacket	PE	15.3±0.30 mm
Outer Conductor Thickness, nom	—	0.61 mm
Jacket Thickness ,min	—	0.9 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	5-3000 MHz	
DC Resistance, Inner Conductor, max	2.95 Ω/km	0.90 Ω/kft
DC Resistance, Out conductor, max	1.21 Ω/km	0.37 Ω/kft
DC Resistance, Loop , max	4.16 Ω/km	1.27 Ω/kft
SRL min	5-1002 MHz	30 dB
	1002-1218 MHz	24 dB
	1218-1794 MHz	20 dB
	1794-2250 MHz	20 dB
	2250-3000 MHz	20 dB

Mechanical Specifications

Bending Radius ,min.	178 mm
Pulling Tension, max	136 kg
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	0.16	0.52	750	2.17	7.12
55	0.55	1.80	870	2.35	7.69
211	1.09	3.58	1002	2.54	8.32
250	1.20	3.94	1218	2.83	9.28
270	1.24	4.06	1500	3.26	10.68
300	1.31	4.30	1794	3.62	11.88
330	1.38	4.53	1800	3.63	11.91
350	1.43	4.69	2000	3.87	12.68
400	1.53	5.02	2200	4.10	13.44
450	1.63	5.35	2500	4.43	14.52
500	1.73	5.67	2700	4.64	15.22
550	1.82	5.97	3000	4.95	16.25
600	1.64	5.38			