

## 540M

540 Welded Aluminum Tube Cable With Messenger, Black PE Jacket.



### Material Specification

Inner Conductor	Copper Clad Aluminum	3.15±0.03 mm
Dielectric	Foam Polyethylene	13.06±0.10 mm
Outer Conductor	Welded Aluminum Tube	13.72±0.10 mm
Messenger Wire	Galvanized Steel	2.77±0.03 mm
Jacket	PE	15.49±0.20 mm
Outer Conductor Thickness, nom	—	0.35 mm
Jacket Thickness ,min	—	0.53 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	3.48 Ω/km	1.06 Ω/kft
DC Resistance, Out conductor, max	1.97 Ω/km	0.60 Ω/kft
DC Resistance, Loop , max	5.45 Ω/km	1.66 Ω/kft
SRL min	5-1002 MHz	26 dB
	1002-1218 MHz	24 dB
	1218-1794 MHz	20 dB
	1794-2250 MHz	20 dB
	2250-3000 MHz	18 dB

### Mechanical Specifications

Bending Radius ,Min.	101.6 mm
Pulling Tension, max	99 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	0.14	0.46	750	1.86	6.10
55	0.47	1.54	870	2.00	6.56
211	0.95	3.12	1002	2.17	7.12
250	1.03	3.38	1218	2.42	7.89
270	1.08	3.54	1500	2.72	8.92
300	1.14	3.74	1794	3.01	9.87
330	1.20	3.93	1800	3.02	9.89
350	1.23	4.04	2000	3.20	10.50
400	1.33	4.36	2200	3.38	11.09
450	1.41	4.63	2500	3.64	11.93
500	1.50	4.92	2700	3.80	12.48
550	1.58	5.18	3000	4.04	13.26
600	1.66	5.44			