

PRODUCT SPECIFICATION



A540JM-109

75 Ohm Trunk and Distribution Cable, Black PE jacket with Messenger

CONSTRUCTION MATERIALS

Jacket Material	Black PE
Outer Conductor Material	Aluminum, Welded
Dielectric Material	Foam PE
Inner Conductor Material	Copper-clad aluminum wire
Messenger Material	Galvanized Steel

DIMENSIONS

Diameter over Jacket	0.610 in	15.49 mm
Jacket thickness, nominal	0.035 in	0.89 mm
Diameter of Steel Messenger	0.109 in	2.77 mm
Diameter over Outer Conductor	0.540 in	13.72 mm
Diameter over Dielectric	0.514 in	13.03 mm
Diameter of Inner Conductor	0.124 in	3.15 mm

ELECTRICAL SPECIFICATIONS

Operating Frequency Band	5-1000 MHz	
Impedance	75 ± 2 Ohms	
Velocity, nominal	88%	
DC Resistance, inner cond.	1.02 Ω/kft	3.34 Ω/km
DC Resistance, outer cond.	.59 Ω/kft	1.94 Ω/km
DC Resistance, loop	1.61 Ω/kft	5.28 Ω/km
Capacitance, nominal	15.3 pF/ft	50.2 pF/m
Jacket Spark Test Voltage	5000 Vac	
Structural Return Loss	-30 dB	

Attenuation @ 68°F (20°C)		
MHz	dB/100ft	dB/100m
5	0.14	0.46
55	0.47	1.54
211	0.95	3.12
250	1.03	3.38
270	1.07	3.51
300	1.13	3.71
325	1.18	3.87
350	1.23	4.03
400	1.32	4.33
450	1.40	4.59
500	1.49	4.89
550	1.56	5.12
600	1.64	5.38
750	1.85	6.07
865	2.00	6.56
1000	2.17	7.12

MECHANICAL SPECIFICATIONS

Minimum bend radius	4 inches	100 mm
Maximum pulling tension	220 lbf	980 N
Minimum Breaking Strength of Messenger	1800 lbf	8002 N
Cable Weight	170 lb/kft	253 kg/km
Standard length per reel (other lengths available)	3700ft	1128 m

PRINT

PCT A540JM-109 (Repeated every 2 feet)

STANDARDS

Meets or exceeds ANSI/SCTE 15 Type 540-F



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