



.500 Trunk Cable Product Specifications

Construction Materials*	
Jacket Material	PE
Center Conductor Material	Copper Clad Aluminum
Dielectric Material	PE
Construction Type	Seamless Extruded
Messenger Wire Material	Galvanized Steel
Outer Conductor Material	Aluminum

Dimensions*	
Diameter Over Center Conductor, nominal	2.769mm - 0.109"
Diameter Over Dielectric, nominal	11.430mm - 0.450"
Diameter Over Outer Conductor, nominal	12.700mm - 0.500"
Diameter Over Jacket, nominal	14.224mm - 0.560"
Diameter Over Messenger Wire, nominal	2.769mm - 0.109"
Jacket Thickness, nominal	0.7620mm - 0.0300"
Outer Conductor Thickness, nominal	0.6096mm - 0.0240"
Cable Length	732m - 2,400"
Shipping Weight	176 lbs @ 1,000'

Electrical Specifications*	
dc Resistance, Inner Conductor, nominal	1.35 ohms @ 1,000'
dc Resistance, Outer Conductor, nominal	0.37 ohms @ 1,000'
dc Resistance, Loop, nominal	1.72 ohms @ 1,000'
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm
Nominal Velocity of Propagation (NVP)	87%
Jacket Spark Test Voltage	5000Vac
Operating Frequency Band	5-1000 MHz
Structural Return Loss	30 dB @ 5-1000 MHz

General Specifications*	
Cable Type	.500 Trunk
Environmental Space	Aerial
Jacket Color	Black
Packaging Type	Reel

Mechanical Specifications*	
Messenger Wire Breaking Strength, minimum	816 kg - 1,800 lbs
Minimum Bend Radius, bonded	88.90mm - 3.50"
Minimum Bend Radius, standard	152.40mm - 6.00"
Pull Tension, maximum	136 kg - 300 lbs

Maximum Attenuation*		
Frequency (MHz)	dB/100ft	dB/100m
5	0.16	0.52
55	0.55	1.80
211	1.09	3.58
250	1.20	3.94
270	1.24	4.06
300	1.31	4.30
330	1.38	4.53
350	1.43	4.69
400	1.53	5.02
450	1.63	5.35
500	1.73	5.67
550	1.82	5.97
600	1.92	6.30
750	2.17	7.12
870	2.35	7.69
1000	2.53	8.30

Compliance	*All specifications meet or surpass SCTE 15 2006 Specifications
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Description:

Multicom's High Performance SCTE-Compliant Trunk Cable is manufactured under the ISO 9001:2008 quality management system to meet or surpass industry standards. With low attenuation and inherent strength - its proven performance and reliability make it the right choice for distribution applications.



Part# M500-JCAM109S

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