



# .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	749m - 2,460'
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 @68°F (20°C)		
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

RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this management system
SCTE Compliance	All specifications meet or surpass SCTE 15 2006 Specifications

### Description:

Multicom's High Performance SCTE-Compliant Trunk Cable is manufactured in an ISO:9001 Certified facility and has specifications that meet or surpass industry standards - with low attenuation and inherent strength. Its proven performance and reliability make it the right choice for distribution applications.



Society of Cable  
Telecommunications  
Engineers  
SCTE 15 2006 Compliant



Part# M500-JCAM109-S



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