

PIII[®] 500 JCAM109 75 Ohm Coaxial Cable Trunk & Distribution



PRODUCT DESCRIPTION: (AERIAL CONSTRUCTION)
SOLID ALUMINUM TUBE SWAGED ONTO DIELECTRIC
CORE, FULLY BONDED COPPER CLAD CENTER CONDUCTOR
MEDIUM DENSITY PE JACKET, "FIGURE 8" INTEGRATED
MESSENGER

CENTER CONDUCTOR:
COPPER CLAD ALUMINUM
NOMINAL DIAMETER: 0.109" (2.77 mm)

DIELECTRIC:
MICRO-CELLULAR FOAM PE
NOMINAL DIAMETER 0.450" (11.43 mm)

SHIELD:
SOLID ALUMINUM TUBE
NOMINAL OUTER CONDUCTOR THICKNESS: 0.024" (0.64 mm)

JACKET:
MEDIUM DENSITY PE
NOMINAL JACKET DIAMETER: 0.560" (14.22 mm)
NOMINAL JACKET THICKNESS: 0.030" (0.76 mm)

MESSENGER:
NOMINAL DIAMETER OF STEEL MESSENGER: 0.109" (2.77 mm)
MINIMUM BREAKING STRENGTH OF MESSENGER: 1,800 lbs. (816 kg)

MECHANICAL CHARACTERISTICS:
MINIMUM BEND RADIUS: STANDARD= 6.0" (15.2 cm)
MINIMUM BEND RADIUS: BONDED = 3.5" (8.9 cm)
MAXIMUM PULLING TENSION = 300 lbs. (136 kg)



Shipping Weight (lbs./kft): 179 - (kg/km): 266

ELECTRICAL CHARACTERISTICS:

CAPACITANCE:	15.3 ± 1.0 pf/ft. (50 ± 3.0 nf/km)
IMPEDANCE:	75 ± 2 Ohms
VELOCITY OF PROPAGATION:	87% NOMINAL
MAXIMUM DC LOOP RESISTANCE @ 68°F:	1.72 Ohms/1000 ft. (5.64 Ohms/km)
ATTENUATION: @ 68°F (20°C)	

@ Frequency MHz	dB/100 ft. (MAX.)	dB/100 meters (MAX.)
5 MHz	0.16	0.52
55 MHz	0.54	1.77
83 MHz	0.66	2.17
211 MHz	1.09	3.58
250 MHz	1.20	3.94
300 MHz	1.31	4.30
350 MHz	1.43	4.69
400 MHz	1.53	5.02
450 MHz	1.63	5.35
500 MHz	1.73	5.67
550 MHz	1.82	5.97
600 MHz	1.91	6.27
750 MHz	2.16	7.09
865 MHz	2.34	7.68
1000 MHz	2.52	8.27

*Drawing not to scale.
 Specifications subject to change.
 Revision: 02/22/99*