

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

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PRODUCT DESCRIPTION: (AERIAL CONSTRUCTION)
SOLID ALUMINUM TUBE SWAGED ONTO DIELECTRIC
CORE, FULLY BONDED COPPER CLAD CENTER CONDUCTOR,
PE JACKET

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" (0.61 mm)

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

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_f)

ELECTRICAL CHARACTERISTICS:

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

Center Conductor

Dielectric

Solid Aluminum Shield

PE Jacket



Shipping Weight (lbs./kft): 120 - (kg/km): 174

@ 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: 06/05/07