

# PIII<sup>®</sup> 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