

# PIII<sup>®</sup> 625 JCASS 75 Ohm Coaxial Cable Trunk & Distribution

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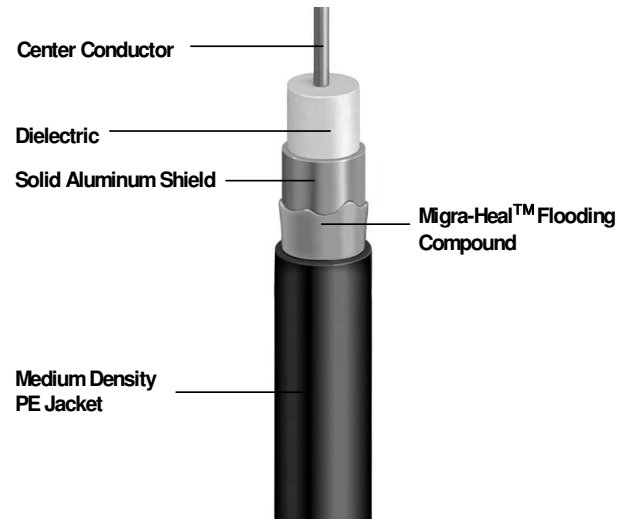
**PRODUCT DESCRIPTION: (UNDERGROUND CONSTRUCTION)**  
SOLID ALUMINUM TUBE SWAGED ONTO DIELECTRIC  
CORE, FULLY BONDED COPPER CLAD CENTER CONDUCTOR,  
MIGRA-HEAL<sup>™</sup> FLOODING COMPOUND, MEDIUM DENSITY  
PE JACKET

**CENTER CONDUCTOR:**  
COPPER CLAD ALUMINUM  
NOMINAL DIAMETER: 0.137" (3.48 mm)

**DIELECTRIC:**  
MICRO-CELLULAR FOAM PE  
NOMINAL DIAMETER 0.565" (14.35 mm)

**SHIELD:**  
SOLID ALUMINUM TUBE  
NOMINAL OUTER CONDUCTOR THICKNESS: 0.030" (0.76 mm)  
NOMINAL DIAMETER OVER OUTER CONDUCTOR: 0.625" (15.88 mm)

**JACKET:**  
MEDIUM DENSITY PE (FLOODED WITH MIGRA-HEAL<sup>™</sup>  
FOR UNDERGROUND CONSTRUCTION)  
NOMINAL JACKET THICKNESS: 0.030" (0.76 mm)  
NOMINAL DIAMETER OVER FLOODED JACKET: 0.695" (17.65 mm)



Shipping Weight (lbs./kft): 187 - (kg/km): 278

**MECHANICAL CHARACTERISTICS:**  
MINIMUM BEND RADIUS STANDARD: 7.0" (17.8 cm)  
MINIMUM BEND RADIUS: BONDED = 4.5" (11.4 cm)  
MAXIMUM PULLING TENSION = 475 lbs. (216 kg)

**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: 1.10 Ohms/1000 ft. (3.51 Ohms/km)  
ATTENUATION @ 68°F (20°C):

@ Frequency MHz	dB/100 ft. (MAX.)	dB/100 meters (MAX.)
5 MHz	0.13	0.43
55 MHz	0.46	1.51
83 MHz	0.57	1.87
211 MHz	0.92	3.02
250 MHz	1.00	3.28
300 MHz	1.08	3.54
350 MHz	1.18	3.87
400 MHz	1.27	4.17
450 MHz	1.35	4.43
500 MHz	1.43	4.69
550 MHz	1.50	4.92
600 MHz	1.58	5.18
750 MHz	1.78	5.84
865 MHz	1.93	6.33
1000 MHz	2.07	6.79



Drawing not to scale.  
Specifications subject to change.  
Revision: 06/06/07