

# QR<sup>®</sup> 320 JCA 75 Ohm Coaxial Cable Trunk & Distribution

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**PRODUCT DESCRIPTION: (AERIAL CONSTRUCTION)**  
QUANTUM REACH<sup>®</sup> PATENTED, COPPER CLAD ALUMINUM  
CENTER CONDUCTOR, RF WELDED, FULLY BONDED SHIELD,  
PE JACKET

**CENTER CONDUCTOR:**  
COPPER CLAD ALUMINUM  
NOMINAL DIAMETER: 0.071" (1.80 mm)

**DIELECTRIC:**  
MICRO-CELLULAR FOAM PE  
NOMINAL DIAMETER 0.294" (7.47 mm)

**SHIELD:**  
RF WELDED, SOLID ALUMINUM TUBE  
NOMINAL OUTER CONDUCTOR THICKNESS: 0.013" (0.34 mm)

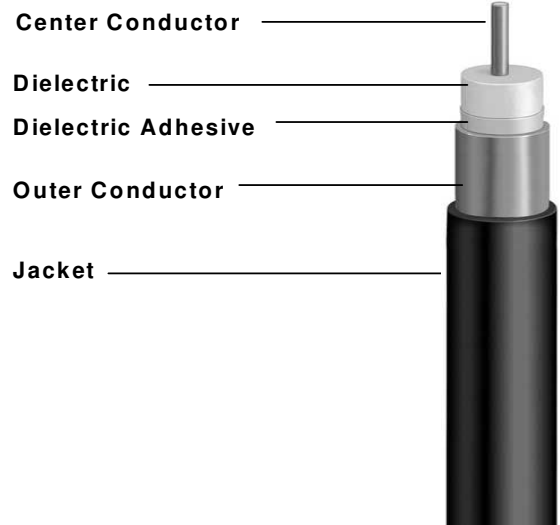
**JACKET:**  
NOMINAL JACKET DIAMETER: 0.395" (10.03 mm)  
NOMINAL JACKET THICKNESS: 0.0375 (0.89 mm)

**MECHANICAL CHARACTERISTICS:**  
MINIMUM BEND RADIUS: 2.0" (50.8 mm)  
MAXIMUM PULLING TENSION = 120 lbs. (54.5 kg)

**ELECTRICAL CHARACTERISTICS:**

**CAPACITANCE:** 15.3 +/- 1.0 pf/ft. (50 +/-3.0 nf/km)  
**IMPEDANCE:** 75 +/- 3 Ohms  
**VELOCITY OF PROPAGATION:** 87% NOMINAL  
**NOMINAL DC LOOP RESISTANCE @ 68°F:** 4.27 Ohms/1000 ft. (14.01 Ohms/km)  
**ATTENUATION @ 68°F (20°C):**

Shipping Weight (lbs./kft): 63 - (kg/km): 70



@ Frequency MHz	dB/100 ft. (MAX.)	dB/100 meters (MAX.)
5 MHz	0.24	0.79
55 MHz	0.84	2.76
83 MHz	1.07	3.51
211 MHz	1.73	5.68
250 MHz	1.86	6.10
300 MHz	2.04	6.69
350 MHz	2.25	7.38
400 MHz	2.38	7.81
450 MHz	2.52	8.27
500 MHz	2.72	8.92
550 MHz	2.85	9.35
600 MHz	2.98	9.78
750 MHz	3.34	10.96
865 MHz	3.62	11.87
1000 MHz	3.89	12.76



Drawing not to scale.  
Specification subject to change.  
Revision: 05/14/08