

# QR<sup>®</sup> 860 JCASS

## 75 Ohm Coaxial Cable

### Trunk & Distribution

**PRODUCT DESCRIPTION: (UNDERGROUND CONSTRUCTION)**

QUANTUM REACH<sup>®</sup> PATENTED, COPPER CLAD ALUMINUM CENTER CONDUCTOR, RF WELDED, FULLY BONDED SHIELD, MIGRA-HEAL<sup>™</sup> FLOODING COMPOUND, MDPE JACKET

**CENTER CONDUCTOR:**  
 COPPER CLAD ALUMINUM  
 NOMINAL DIAMETER: 0.203" (5.16 mm)

**DIELECTRIC:**  
 MICRO-CELLULAR FOAM PE  
 NOMINAL DIAMETER: 0.828" (21.03 mm)

**SHIELD:**  
 RF WELDED, SOLID ALUMINUM TUBE  
 NOMINAL DIAMETER: 0.860" (21.84 mm)  
 NOMINAL OUTER CONDUCTOR THICKNESS: 0.016" (0.41 mm)

**JACKET: MDPE JACKET (FLOODED WITH MIGRA-HEAL<sup>™</sup> FOR UNDERGROUND CONSTRUCTION)**  
 NOMINAL JACKET DIAMETER: 0.960" (24.38 mm)  
 NOMINAL JACKET THICKNESS: 0.045" (1.14 mm)

Center Conductor

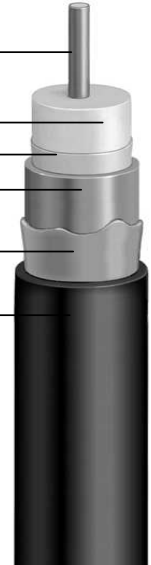
Dielectric

Dielectric Adhesive

Outer Conductor

Migra-Heal<sup>™</sup>  
 Flooding Compound

MDPE Jacket



**MECHANICAL CHARACTERISTICS:**

MINIMUM BEND RADIUS: 7.0" (17.8 cm)  
 MAXIMUM PULLING TENSION = 450 lbs. (204 kg<sub>f</sub>)

**ELECTRICAL CHARACTERISTICS:**

CAPACITANCE: 15.3 +/- 1.0 pf/ft. (50 +/- 3.0 nf/km)  
 IMPEDANCE: 75 +/- 2 Ohms  
 VELOCITY OF PROPAGATION: 88% NOMINAL  
 NOMINAL DC LOOP RESISTANCE @ 68°F: 0.73 Ohms/1000 ft. (2.40 Ohms/km)  
 ATTENUATION @ 68°F (20°C):

Shipping Weight (lbs./kft): 292 - (kg/km): 435

@ Frequency MHz	dB/100 ft. (MAX.)	dB/100 meters (MAX.)
5 MHz	0.09	0.30
55 MHz	0.32	1.05
83 MHz	0.40	1.31
211 MHz	0.64	2.10
250 MHz	0.70	2.30
300 MHz	0.76	2.49
350 MHz	0.83	2.72
400 MHz	0.88	2.89
450 MHz	0.95	3.12
500 MHz	1.00	3.28
550 MHz	1.06	3.48
600 MHz	1.10	3.61
750 MHz	1.24	4.07
865 MHz	1.33	4.36
1000 MHz	1.44	4.72