

# QR® 540 JCASS

## 75 Ohm Coaxial Cable

### Trunk & Distribution



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#### PRODUCT DESCRIPTION: (UNDERGROUND CONSTRUCTION)

QUANTUM REACH® PATENTED, COPPER CLAD ALUMINUM  
CENTER CONDUCTOR, RF WELDED, FULLY BONDED SHIELD,  
MIGRA-HEAL™ FLOODING COMPOUND, PE JACKET

#### CENTER CONDUCTOR:

COPPER CLAD ALUMINUM  
NOMINAL DIAMETER: 0.124" (3.15 mm)

#### DIELECTRIC:

MICRO-CELLULAR FOAM PE  
NOMINAL DIAMETER: 0.514" (13.03 mm)

#### SHIELD:

RF WELDED, SOLID ALUMINUM TUBE  
NOMINAL OUTER CONDUCTOR THICKNESS: 0.0135" (0.343 mm)

#### JACKET:

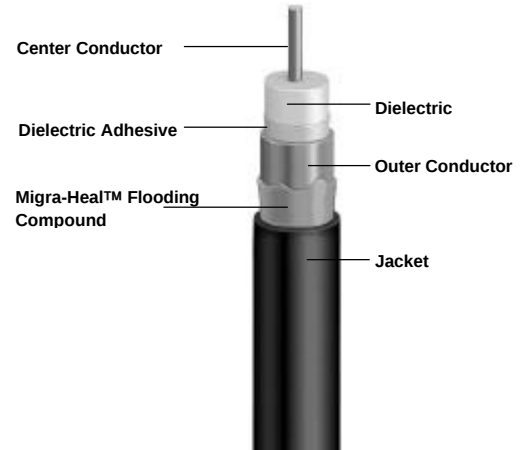
PE JACKET (FLOODED WITH MIGRA-HEAL™  
FOR UNDERGROUND CONSTRUCTION)  
NOMINAL JACKET DIAMETER: 0.610" (15.49 mm)  
NOMINAL JACKET THICKNESS: 0.035 (0.89 mm)

#### MECHANICAL CHARACTERISTICS:

MINIMUM BEND RADIUS: 4.0" (10.2 cm)  
MAXIMUM PULLING TENSION = 220 lbs. (100 kg)

#### ELECTRICAL CHARACTERISTICS:

CAPACITANCE: 15.3 +/- 1.0 pf/ft. (50 +/- 3.0 nf/km)  
IMPEDANCE: 75.0 +/- 2.0 Ohms  
VELOCITY OF PROPAGATION: 88% NOMINAL  
MAXIMUM DC LOOP RESISTANCE @ 68°F: 1.61 Ohms/1000 ft. (5.28 Ohms/km)  
ATTENUATION: @ 68°F (20°C):



Shipping Weight (lbs./kft): 128 - (kg/km): 190

| @ Frequency MHz | dB/100 ft. (MAX.) | dB/100 meters (MAX.) |
|-----------------|-------------------|----------------------|
| 5 MHz           | 0.14              | 0.46                 |
| 55 MHz          | 0.47              | 1.54                 |
| 83 MHz          | 0.58              | 1.90                 |
| 211 MHz         | 0.95              | 3.12                 |
| 250 MHz         | 1.03              | 3.38                 |
| 300 MHz         | 1.13              | 3.71                 |
| 350 MHz         | 1.23              | 4.03                 |
| 400 MHz         | 1.32              | 4.33                 |
| 450 MHz         | 1.40              | 4.59                 |
| 500 MHz         | 1.49              | 4.89                 |
| 550 MHz         | 1.56              | 5.12                 |
| 600 MHz         | 1.64              | 5.38                 |
| 750 MHz         | 1.85              | 6.07                 |
| 865 MHz         | 2.00              | 6.56                 |
| 1000 MHz        | 2.17              | 7.12                 |

Drawing not to scale.  
Specifications subject to change.  
Revision: 01/20/99