

**I. Description:**

75 Ohm Miniature Quad Shield Head End Coaxial Cable

**II. Electrical Characteristics:**

Impedance (\*): 75 +/- 1.5 Ohms  
 Nom. Inductance: 0.106 Micro-H/ft.  
 Nom. Capacitance Conductor to Shield: 16.3 pF/ft.  
 Nom. Velocity of Propagation: 83%  
 Nom. Delay: 1.22 ns/ft.  
 Nom. Conductor DC Resistance at 20 Degrees C: 20.1 Ohms/1000 ft.  
 Nom. Shield DC Resistance at 20 Degrees C: 3.5 Ohms/1000 ft.  
 Return Loss (\*\*): 23 dB min., 5-850 MHz  
 21 dB min., 850 – 3000 MHz  
 Max. Operating Voltage: 300 Vrms

**Attenuation:**

MHz	Nom. dB/100 ft.	MHz	Nom. dB/100 ft.
1	0.39	180	4.38
3.58	0.78	270	5.40
5	0.92	360	6.20
7	1.08	540	7.70
10	1.20	720	9.47
67.5	2.83	750	9.59
71.5	3.06	1000	10.5
88.5	3.16	1500	13.0
100	3.33	2000	15.1
135	3.81	2250	16.0
143	3.92	3000	18.5

**III. Physical Characteristics:**

Operating Temperature Rating: -20 to +75 Degrees C  
 Nom. Bulk Cable Weight: 30 lbs/1000 ft.  
 Min. Bending Radius (install): 1.5"  
 Max. Recommended Pulling Tension: 36 lbs  
 Conductor Material: 23 AWG Solid Bare Copper  
 Nom. Conductor Diameter: .0228"  
 Dielectric Material: Gas Injected Foam High Density PE  
 Nom. Dielectric Diameter: .102  
 Shield Type & Nominal Percent Coverage:  
 First Layer: Bonded Duofoil® Tape, 100%  
 Second Layer: Tinned Copper Braid, 95%  
 Third Layer: Duofoil® Tape, 100%  
 Fourth Layer: Tinned Copper Braid, 90%  
 Jacket Material: PVC  
 Nom. Jacket Diameter: .185"  
 NEC/(UL) Specification: CMR  
 CEC/C(UL) Specification: CMR  
 CSA Specification: FT-4  
 UL Flame Test: UL 1666 Vertical Riser  
 Use: Suitable for indoor use only.  
 RoHS Compliant: Yes

\* Tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75-ohm fixed bridge and termination.

\*\* Tested in accordance with ASTM D-4566 paragraph 45.3, using a 75-ohm fixed bridge and termination.

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