

Preliminary Technical Data Sheet

9-17-2014 Rev. 0

Quote 1079429B Item 3

I. Description:

Composite Cable, 75 Ohm Coax, 3 Conductors 18 AWG Stranded PVC, Overall Shield, Overall PVC Jacket

II. Electrical Characteristics:

Coax

Nom. Impedance: 75 Ohms
Nom. Inductance: 0.106 μ H/ft.
Nom. Capacitance Conductor to Shield: 17.4 pF/ft.
Nom. Velocity of Propagation: 77%
Nom. Delay: 1.32 ns/ft.

Nom. Conductor DC Resistance at 20 Degrees C: 70.5 Ohms/1000 ft. Nom. Shield DC Resistance at 20 Degrees C: 8.0 Ohms/1000 ft. Max. Operating Voltage: 300 Vrms (non-UL)

Nom. Attenuation:

| <u>MHz</u> | dB/100 ft |
|------------|-----------|
| 1 | 1.18 |
| 10 | 2.39 |
| 67.5 | 5.89 |
| 100 | 6.89 |
| 180 | 8.93 |
| 360 | 12.5 |
| 540 | 15.4 |
| 750 | 18.3 |
| 1000 | 21.3 |

Conductors

Nom. Conductor DC Resistance at 20 Degrees C: 5.8 Ohms/1000 ft. Max. Operating Voltage: 30 Vrms (non-UL)

III. Physical Characteristics:

Coax

Conductor

AWG: 28.5
Stranding: Solid
Material: Bare Copper

Nom. Diameter: .0122"

Dielectric

Material: Foamed PE

Nom. Diameter: .056"

Shield

First Layer

Type: Tape
Material: Al/poly/Al
Coverage: 100%

Second Layer

Type: Braid

Material: Tinned Copper

Coverage: 95%

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Jacket

Material: PVC Nom. Diameter: .100"

Conductors

Conductor

AWG: 18 Stranding: 19x Strand AWG: 30

Material: **Tinned Copper**

Nom. Diameter: .044"

Insulation

Material: **PVC** Nom. Diameter: .080"

Color Code: Blk, Red, Wht

Overall Cable

3 Conductors around 1 Coax Cabling:

Separator tape: Non-woven polyester

Shield

Type: Tape Material: Al/poly Coverage: 100%

Drain Wire

AWG: 24 Stranding: 7x Strand AWG: 32

Material: **Tinned Copper**

.024" Nom. Diameter:

Jacket

Material: PVC Nom. Diameter: .246"

Operating Temperature Rating: -20 to +75 Degrees C

Nom. Bulk Cable Weight: 42 lbs/1000 ft.

Min. Bending Radius (Install): 2.5" Max. Recommended Pulling Tension: 18 lbs RoHS Compliant: Yes

Reference: 179DT coax