

# Preliminary Technical Data Sheet

10-15-2014 Rev. 2

Quote 1079429E Item 7

# I. Description:

Composite Cable with Overall PVC Jacket

- 1) 75 Ohm Coax
- 2) 3 Conductors, 18 AWG Stranded, PVC/Nylon Insulation, Shield, PVC Jacket

# II. Electrical Characteristics:

### Coax

Nom. Impedance: 75 Ohms Nom. Inductance: 0.106  $\mu$ 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

#### 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°C: 5.9 Ohms/1000 ft. Nom. Shield DC Resistance at 20°C: 7.5 Ohms/1000 ft.

Max. Recommended Current at 20°C Ambient: 4.0 Amps Max. Operating Voltage: 300 Vrms

# 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%

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Second Layer

Type: Braid

**Tinned Copper** Material:

Coverage: 95%

Jacket

PVC Material: Nom. Diameter: .100" Print Legend: None

## **Three Shielded Conductors**

Conductor

AWG: 18 Stranding: 7x Strand AWG: 26

Material: **Bare Copper** 

Nom. Diameter: .046"

Insulation

PVC Material:

Skin Material: Nylon (over PVC)

.088" Nom. Diameter:

Color Code: Black, Red, Blue

Shield

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

Drain Wire

AWG: 20 Stranding: 7x Strand AWG:

**Tinned Copper** Material:

Nom. Diameter: .036"

Rip Cord: **Under Jacket** 

Jacket

PVC Material: .290" Nom. Diameter: Color: Black Print Legend: None

#### **Overall Cable**

Components: 1 Coax, 3 Shielded Conductors

Jacket (overall)

Material: **PVC** .443" Nom. Diameter:

Operating Temperature Rating: -20 to +75 Degrees C

Min. Bending Radius (Install):

1" Coax: 2.9" Three Shielded Conductors: Overall Cable: 4.5" Max. Recommended Pulling Tension: 18 lbs **RoHS Compliant:** Yes

Reference: 179DT, 1121A

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