

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:

MHz	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%

Second Layer	
Type:	Braid
Material:	Tinned Copper
Coverage:	95%
Jacket	
Material:	PVC
Nom. Diameter:	.100"
Print Legend:	None

**Three Shielded Conductors**

Conductor	
AWG:	18
Stranding:	7x
Strand AWG:	26
Material:	Bare Copper
Nom. Diameter:	.046"
Insulation	
Material:	PVC
Skin Material:	Nylon (over PVC)
Nom. Diameter:	.088"
Color Code:	Black, Red, Blue
Shield	
Type:	Tape
Material:	Al/poly
Coverage:	100%
Drain Wire	
AWG:	20
Stranding:	7x
Strand AWG:	28
Material:	Tinned Copper
Nom. Diameter:	.036"
Rip Cord:	Under Jacket
Jacket	
Material:	PVC
Nom. Diameter:	.290"
Color:	Black
Print Legend:	None

**Overall Cable**

Components:	1 Coax, 3 Shielded Conductors
Jacket (overall)	
Material:	PVC
Nom. Diameter:	.443"
Operating Temperature Rating:	-20 to +75 Degrees C
Min. Bending Radius (Install):	
Coax:	1"
Three Shielded Conductors:	2.9"
Overall Cable:	4.5"
Max. Recommended Pulling Tension:	18 lbs
RoHS Compliant:	Yes

Reference: 179DT, 1121A