

08-29-2017 Rev. 0

Quote 1205018, Design A

I. Description:

Composite cable consisting of 1 Coax, 26 AWG and 3 Conductors, 22 AWG, Overall Tinned Copper Braid (85%) and TPE Halogen Free Jacket.

II. Electrical Characteristics (Coax):

Nom. Impedance:	75 Ohms
Nom. Capacitance Conductor to Shield:	17.3 pF/ft.
Nom. Velocity of Propagation:	78%
Nom. Delay:	1.3 ns/ft.
Nom. Conductor DC Resistance at 20°C:	41.5 Ohms/1000 ft.
Nom. Shield DC Resistance at 20°C:	8.6 Ohms/1000 ft.
Min. Structural Return Loss:	25 dB, 10-40 MHz
Max. Operating Voltage:	150 Vrms

Nom. Attenuation:

<u>MHz</u>	<u>dB/100 ft.</u>
1	.6
5	1.3
10	1.8
30	3.1
50	3.9
100	5.4
200	7.5
400	10.4
700	13.5
900	15.2
1000	15.9

III. Electrical Characteristics (Conductors):

Nom. Conductor DC Resistance at 20°C:	15.0 Ohms/1000 ft.
Max. Operating Voltage:	300 Vrms

IV. Physical Characteristics (Coax):

Conductor	
AWG:	26
Stranding:	19x38 AWG
Material:	BC - Bare Copper
Nom. Diameter:	.021"
Dielectric	
Material:	Gas Injected Foam PE
Nom. Diameter:	.089"
Shield	
Type:	Braid
Material:	TC - Tinned Copper
Nom. Percent Coverage:	95%
Jacket	
Material:	PP - Polypropylene
Nom. Diameter:	.143"

V. Physical Characteristics (Conductors):

AWG:	22
Stranding:	7x30 AWG
Conductor Material:	TC - Tinned Copper
Insulation Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	.050"

VI. Overall:

Cable is 1 Coax Plus 3 X 22 AWG Conductors (Black, Red, Orange)

Shield

Type:	Braid
Material:	TC - Tinned Copper
Nom. Percent Coverage:	85%

Jacket

Material:	TPE Halogen Free
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Operating Temperature Rating:	-20°C to +80°C
Nom. Overall Diameter:	.236"
Min. Bending Radius (Install):	2.4"
Max. Recommended Pulling Tension:	50 lbs
RoHS Compliant:	Yes