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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## General Description:

Series 6, 18 AWG solid .040" bare copper-covered steel conductor(s), gas-injected foam polyethylene insulation, Duobond® III + aluminum braid shield (77% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BCCS - Bare Copper Covered Steel	.040

Total Number of Conductors: 1

### Insulation

#### Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.180

### Outer Shield

#### Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	77
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 0.278 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

UL Temperature Rating: 80°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 138 lbs.

Min. Bend Radius/Minor Axis: 3 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 09/25/2006

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Series Type: Series 6

### Flame Test

UL Flame Test: UL1685 UL Loading

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	+/- 3

#### Nom. Inductance:

Inductance (µH/ft)
.097

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.2

#### Nominal Velocity of Propagation:

VP (%)
83

#### Nominal Delay:

Delay (ns/ft)
1.2

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
28.0

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.6

#### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5	0.67
55	1.60
211	2.87
270	3.24
300	3.43
350	3.72
400	4.00
450	4.26
550	4.71
750	5.59
870	6.00
1000	6.54

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

#### Minimum Structural Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	1000	20

### Sweep Test

Sweep Testing: 5 MHz to 1 GHz

## Misc. Information (Overall)

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1613AT 010U1000	1,000 FT	30.000 LB	BLACK		#18 GIFHLDPE SH FS PVC
1613AT 010I1000	1,000 FT	29.000 LB	BLACK	C	#18 GIFHLDPE SH FS PVC

#### Notes:

C = CRATE REEL PUT-UP.

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