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1-800-Belden1



### Description:

18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® IV quad shield (60% and 40% 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	60
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
4		Braid	AL - Aluminum	40

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.294 in.

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 29 lbs/1000 ft.

Max. Recommended Pulling Tension: 162 lbs.

Min. Bend Radius/Minor Axis: 3 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

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): 01/01/2004

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
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### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1189AP

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### 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)

4.8

### Max. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

5	.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
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### Sweep Test

Sweep Testing: 5 MHz - 1 GHz

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1189A 009U1000	1,000 FT	32.000 LB	WHITE		#18 GIFHDLDPPE DBL SH PVC
1189A 009U500	500 FT	16.500 LB	WHITE		#18 GIFHDLDPPE DBL SH PVC
1189A 009I000	1,000 FT	31.000 LB	WHITE	C	#18 GIFHDLDPPE DBL SH PVC
1189A 010U1000	1,000 FT	32.000 LB	BLACK		#18 GIFHDLDPPE DBL SH PVC .
1189A 010U500	500 FT	16.500 LB	BLACK		#18 GIFHDLDPPE DBL SH PVC
1189A 010I000	1,000 FT	31.000 LB	BLACK		#18 GIFHDLDPPE DBL SH PVC .
1189A 0105000	5,000 FT	170.000 LB	BLACK		#18 GIFHDLDPPE DBL SH PVC
1189A 290I000	1,000 FT	31.000 LB	BEIGE, LIGHT		#18 GIFHDLDPPE DBL SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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