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1-800-Belden1



## General 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. (mm)
1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	4.572

### 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: 7.468 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
Bulk Cable Weight:	43.158 Kg/Km
Max. Recommended Pulling Tension:	720.608 N
Min. Bend Radius/Minor Axis:	76.200 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/(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):	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

**Plenum/Non-Plenum**

Plenum (Y/N): No

Plenum Number: 1189AP

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
75

**Nom. Inductance:**

Inductance (µH/m)  
0.318257

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)  
53.1522

**Nominal Velocity of Propagation:**

VP (%)  
83

**Nominal Delay:**

Delay (ns/m)  
3.9372

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)  
91.868

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)  
15.7488

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
5	2.19827
55	5.2496
211	9.41647
270	10.6304
300	11.2538
350	12.2053
400	13.124
450	13.9771
550	15.4535
750	18.3408
870	19.686
1000	21.4577

**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 - 1 GHz

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1189A 009N1000	1,000 FT	37.000 LB	WHITE		#18 GIFHDLDPPE DBL SH PVC
1189A 009U1000	1,000 FT	35.000 LB	WHITE		#18 GIFHDLDPPE DBL SH PVC
1189A 009U500	500 FT	18.000 LB	WHITE		#18 GIFHDLDPPE DBL SH PVC
1189A 009I1000	1,000 FT	34.000 LB	WHITE	C	#18 GIFHDLDPPE DBL SH PVC
1189A 010N1000	1,000 FT	37.000 LB	BLACK		#18 GIFHDLDPPE DBL SH PVC
1189A 010U1000	1,000 FT	34.000 LB	BLACK		#18 GIFHDLDPPE DBL SH PVC
1189A 010U500	500 FT	18.000 LB	BLACK		#18 GIFHDLDPPE DBL SH PVC
1189A 010I1000	1,000 FT	34.000 LB	BLACK		#18 GIFHDLDPPE DBL SH PVC
1189A 010S000	5,000 FT	185.000 LB	BLACK		#18 GIFHDLDPPE DBL SH PVC

## METRIC MEASUREMENT VERSION

### 1189A Coax - Broadband CATV Coax Cable

1189A 2901000	1,000 FT	34.000 LB	BEIGE, LIGHT	#18 GIFHDLPE DBL SH PVC
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**Notes:**

C = CRATE REEL PUT-UP.

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