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1-800-Belden1



### General Description:

18 AWG Solid .040" bare copper-covered steel conductor, gas-injected foam Polyethylene insulation, Duobond Plus® and an 75% Aluminum braid shield, PVC jacket with messenger.

### 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	100.000
2		Braid	AL - Aluminum	75.000
3		Tape	Bonded Aluminum Foil-Polyester Tape w/Shorting Fold	100.000

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Messenger

Messenger Diameter: 1.295 mm

Messenger Material: Galvanized Steel

#### Overall Cable

Overall Nominal Diameter: 6.985 x 10.566 mm

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 62.504 Kg/Km

Max. Recommended Pulling Tension: 489.302 N

Min. Bend Radius/Minor Axis: 76.200 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

### Suitability

Suitability - Aerial:	Yes
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

#### Impedance (Ohm)

75.000

### 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)

18.3736

### 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 - Non-UL:

#### Voltage

350 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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### Notes (Overall)

**Notes:** Sweep tested 5 MHz to 1 GHz.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9059M 0101000	1,000 FT	43.000 LB	BLACK		#18GIFHDLDPPE SH FS PVC W/MSGR

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