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1-800-Belden1



### Description:

18 AWG solid bare copper-covered steel conductor, plenum, foam FEP insulation, Duobond® IV quad shield (100% coverage), fluorocopolymer jacket.

### Usage (Overall)

**Suitable Applications:** Plenum RG-6/U Type

### 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)
FFEP - Foam Fluorinated Ethylene Propylene	4.318

#### 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
PVDF - Fluorocopolymer

#### Overall Cable

**Overall Nominal Diameter:** 6.960 mm

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -20°C To +150°C

**UL Temperature Rating:** 150°C

**Bulk Cable Weight:** 63.993 Kg/Km

**Max. Recommended Pulling Tension:** 462.613 N

**Min. Bend Radius/Minor Axis:** 69.850 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CMP

**CEC/C(UL) Specification:** CMP

## 3132A Coax - ControlBus™ Quad Shielded Coax

IEEE Specification: 802.4 MAP, 802.7 Mini-MAP

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): 04/01/2005

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

RG Type: 6/U

### Flame Test

UL Flame Test: NFPA 262

CSA Flame Test: FT6

### Suitability

Suitability - Outdoor: Yes

Suitability - Burial: Yes

### Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 3131A

## Surface Printing (Overall)

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

### Nom. Inductance:

Inductance (µH/m)
0.305133

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.4803

### Nominal Velocity of Propagation:

VP (%)
82

### 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)
23.6232

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.18116
2	1.24678
5	1.6405
10	2.13265

20	3.11695
50	4.9215
100	6.95572
200	9.81019
300	12.0085
400	13.8786

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Other Electrical Characteristic 1:** Tilt 5 to 10 MHz: .48 dB/100 M

**Other Electrical Characteristic 2:** Tilt 10 to 20 MHz: .93 dB/100 M

**Other Electrical Characteristic 3:** Sweep Tested 5 to 400MHz.

**Minimum Structural Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	400	23

**Phase Delay Distortion:**

F/B	%PDD/100M (5MB)	%PDD/100M (10MB)
0.5	-0.54	-1.19
1.0	-0.19	-0.51
1.5	0	0
2.0	+0.16	+0.38
2.5	+0.30	+0.66

### Notes (Overall)

**Notes:** Tap Marks Every 2.6 Meters to aid in users installation.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3132A F2V1000	305 MT	16.329 KG	GRAY, DEC	C	#18 FFEP DBSH SLF

**Notes:**  
C = CRATE REEL PUT-UP.

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