



## 82120 Coax - CATV Cable

For more Information  
please call

1-800-Belden1



### General Description:

18 AWG solid .040" bare copper-covered steel conductor, plenum, foam FEP insulation, Duofoil® (100% coverage) + TC braid shield (95% coverage), Flam arrest® 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)
FFEP - Foam Fluorinated Ethylene Propylene	4.318

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flam arrest®	LS PVC - Low Smoke Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 5.944 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 61.016 Kg/Km

Max. Recommended Pulling Tension: 627.196 N

Min. Bend Radius/Minor Axis: 58.420 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATVP, CMP

CEC/C(UL) Specification: CMP

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

EU CE Mark: No

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

Series Type: Series 6

### Flame Test

UL Flame Test: NFPA 262

CSA Flame Test: FT6

### Plenum/Non-Plenum

Plenum (Y/N): Yes

Plenum Number: 87120, 89120

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)  
75

### Nom. Inductance:

Inductance (µH/m)  
0.29529

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)  
54.1365

### Nominal Velocity of Propagation:

VP (%)  
82

### Nominal Delay:

Delay (ns/m)  
4.06844

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
91.868

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
5.5777

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
10	2.16546
50	5.2496
100	7.2182
200	9.843
400	15.0926
700	21.6546
900	25.2637
1000	26.9042

### 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	400	20

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82120 8771000	1,000 FT	44.000 LB	NATURAL	C	#18FFEP RG6/U FLMRST

**Notes:**

C = CRATE REEL PUT-UP.

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