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1-800-Belden1



## General Description:

18 AWG solid .040" bare copper-covered steel conductor, foam FEP insulation, Duobond® II (100% coverage) and an aluminum braid shield (60% coverage), Flamarrest® jacket.

## Usage (Overall)

Suitable Applications: Dish, Satellite, KU Band

## 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.)
FFEP - Foam Fluorinated Ethylene Propylene	.170

### 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

### Outer Jacket

Outer Jacket Material:

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

### Overall Cable

Overall Nominal Diameter: 0.235 in.

## Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 25 lbs/1000 ft.

Max. Recommended Pulling Tension: 126 lbs.

Min. Bend Radius/Minor Axis: 3 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATVP, CMP

CEC/(UL) Specification: CMP

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): 05/10/2005

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

Non-Plenum Number: 1829A

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
75

**Nom. Inductance:**

Inductance (µH/ft)  
.09

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)  
16.3

**Nominal Velocity of Propagation:**

VP (%)  
83

**Nominal Delay:**

Delay (ns/ft)  
1.24

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
28.0

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
9

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.3
10	.66
50	1.5
100	2.1
200	3.0
400	4.4
700	6.1
900	7.2
1000	7.6
1450	9.6
1800	11
2250	12.7
3000	15.1

**Max. Operating Voltage - UL:**

Voltage  
300 V RMS

**Minimum Structural Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	2500	15
2500	3000	10

**Sweep Test**

Sweep Testing: 5 MHz - 3 GHz

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1829P 010U1000	1,000 FT	27.000	BLACK		#18 FFEP SH FLRST
1829P 010U250	250 FT	7.500 LB	BLACK		#18 FFEP SH FLRST
1829P 010U500	500 FT	14.000 LB	BLACK		#18 FFEP SH FLRST
1829P 010100	100 FT	4.700 LB	BLACK		#18 FFEP SH FLRST
1829P 877U1000	1,000 FT	27.000 LB	NATURAL		#18 FFEP SH FLRST

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

## 1829P Coax - DBS Cable

1829P 877U250	250 FT	7.500 LB	NATURAL		#18 FFEP SH FLRST
1829P 877U500	500 FT	14.000 LB	NATURAL		#18 FFEP SH FLRST
1829P 877100	100 FT	4.700 LB	NATURAL		#18 FFEP SH FLRST
1829P 8771000	1,000 FT	27.000 LB	NATURAL		#18 FFEP SH FLRST

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