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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. (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

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 5.969 mm

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 37.205 Kg/Km

Max. Recommended Pulling Tension: 560.473 N

Min. Bend Radius/Minor Axis: 76.200 mm

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/m)
0.29529

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.4803

Nominal Velocity of Propagation:

VP (%)
83

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)
29.529

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
10	2.16546
50	4.9215
100	6.8901
200	9.843
400	14.4364
700	20.0141
900	23.6232
1000	24.9356
1450	31.4976
1800	36.091
2250	41.6687
3000	49.5431

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



METRIC 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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