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1-800-Belden1



Description:

23 AWG Solid .023" bare copper-covered steel conductor, plenum, FEP insulation, bare copper braid shield (97% coverage), Flamarrest® jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	23	Solid	BCCS - Bare Copper Covered Steel	0.5842

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FEP - Fluorinated Ethylene Propylene	3.4036

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	97

Outer Jacket

Outer Jacket Material:

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

Overall Cabling

Overall Nominal Diameter: 4.826 mm

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 50.599 Kg/Km

Max. Recommended Pulling Tension: 275.788 N

Min. Bend Radius (Install)/Minor Axis: 63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 10/01/2005

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:	59/U

Flame Test

UL Flame Test:	NFPA 262
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Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	8241

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance ($\mu\text{H}/\text{m}$)
0.413406

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
63.9795

Nominal Velocity of Propagation:

VP (%)
69.5

Nominal Delay:

Delay (ns/m)
4.75745

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
160.769

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
8.5306

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.6405
10	3.281
50	7.5463
100	10.8273
200	17.0612
400	27.5604
700	38.0596
900	45.2778
1000	48.5588

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Operating Voltage - Non-UL:

Voltage
1700 V RMS

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82241 877U1000	305 MT	16.329 KG	NATURAL		#23 FEP RG-59/U FLMRST
82241 877U500	152 MT	8.391 KG	NATURAL		#23 FEP RG59/U FLMRST
82241 8771000	305 MT	15.422 KG	NATURAL	C	#23 FEP RG-59/U FLMRST

Notes:

C = CRATE REEL PUT-UP.

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