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1-800-Belden1



General Description:

27 AWG stranded (7x35) .017" bare copper-covered steel conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	27	7x35	BCCS - Bare Copper Covered Steel	0.4318

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PE - Polyethylene	2.54

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 3.810 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 1354)

Bulk Cable Weight: 20.835 Kg/Km

Max. Recommended Pulling Tension: 142.342 N

Min. Bend Radius/Minor Axis: 38.100 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

AWM Specification: UL Style 1354 (30 V 60°C)

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): 01/01/2004

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

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

METRIC MEASUREMENT VERSION

8218 Coax - 75 Ohm Miniature Coax

Impedance (Ohm)

75

Nom. Inductance:
Inductance (µH/m)

0.377315

Nom. Capacitance Conductor to Shield:
Capacitance (pF/m)

67.2605

Nominal Velocity of Propagation:
VP (%)

66

Nominal Delay:
Delay (ns/m)

5.05274

Nom. Conductor DC Resistance:
DCR @ 20°C (Ohm/km)

393.72

Nominal Outer Shield DC Resistance:
DCR @ 20°C (Ohm/km)

18.7017

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	3.9372
10	7.8744
50	13.7802
100	18.7017
200	27.2323
400	39.7001
700	54.1365
900	62.339
1000	65.62

Max. Operating Voltage - UL:
Voltage

30 V RMS (UL AWM Style 1354)

Max. Operating Voltage - Non-UL:
Voltage

1700 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8218 010U1000	1,000 FT	16.000 LB	BLACK		75 OHM COAX
8218 010U500	500 FT	8.500 LB	BLACK		75 OHM COAX
8218 010I1000	1,000 FT	16.000 LB	BLACK	C	75 OHM COAX
8218 010500	500 FT	8.000 LB	BLACK		75 OHM COAX

Notes:

C = CRATE REEL PUT-UP.

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