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1-800-Belden1



General Description:

15 AWG stranded (19x27) .064" bare copper conductor, plenum, foam FEP insulation, bare copper braid shields (95% and 90% coverage), fluorocopolymer jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	15	19x27	BC - Bare Copper	1.6256

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	7.239

Inner Shield

Inner Shield Material:

Type	Inner Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVDF - Fluorocopolymer	8.89

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	90.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVDF - Fluorocopolymer

Overall Cable

Overall Nominal Diameter: 10.312 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +125°C

Non-UL Temperature Rating: 125°C

Bulk Cable Weight: 186.025 Kg/Km

Max. Recommended Pulling Tension: 1174.325 N

Min. Bend Radius/Minor Axis: 101.600 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	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
RG Type:	11/U

Flame Test

UL Flame Test:	NFPA 262
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

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

0.354

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

54.1365

Nominal Velocity of Propagation:

VP (%)

80

Nominal Delay:

Delay (ns/m)

4.16687

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

10.1711

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

4.101

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

4.265

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1.000	0.328
3.600	0.984
10.000	1.641
71.500	4.593
135.000	6.562
270.000	10.171
360.000	11.812
540.000	15.421
720.000	18.702
750.000	19.030
1000.000	23.295
1500.000	31.170
2000.000	39.044
2250.000	43.309
3000.000	58.730
4500.000	94.821

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	850.000	21.000
850.000	4500.000	15.000

Sweep Test

Sweep Testing: 100% sweep tested 5 MHz to 4500 MHz.

Misc. Information (Overall)

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1859A 0101000	305 MT	60.782 KG	BLACK	C	#15 FFEP BRD SLF BRD PVDF
1859A 010500	152 MT	30.164 KG	BLACK	C	#15 FFEP BRD SLF BRD PVDF

Notes:

C = CRATE REEL PUT-UP.

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