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1-800-Belden1



## General Description:

22 AWG stranded (19x34) .031" bare copper conductor, foam polyethylene insulation, bare copper braid shields (95% coverage), Belflex® jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	22	19x34	BC - Bare Copper	0.7874

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FPE - Foam Polyethylene	3.6322

### 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)
PE - Polyethylene	5.4864

### Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95.000

### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Belflex®	PVC Blend - Polyvinyl Chloride Blend

### Overall Cable

Overall Nominal Diameter: 9.144 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -35°C To +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 117.568 Kg/Km

Max. Recommended Pulling Tension: 551.577 N

Min. Bend Radius/Minor Axis: 95.250 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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
RG Type:	59/U

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black for permanent installations. All colors for field deployable use.

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

75

#### Nom. Inductance:

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

0.318257

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

55.777

#### Nominal Velocity of Propagation:

VP (%)

79

#### Nominal Delay:

Delay (ns/m)

4.23249

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

45.934

#### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.2496

#### Nom. Attenuation:

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

1	0.9843
3.6	1.6405
10	2.6248
71.5	7.2182
135	10.1711
270	14.7645
360	17.7174

## METRIC MEASUREMENT VERSION

## 1857A Triax - RG-59/U Type

540	22.3108
720	26.5761
750	27.5604
1000	33.1381
1500	43.6373
2250	57.7456
3000	70.2134

### Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

### Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	850	21
851	3000	15

### Sweep Test

**Sweep Testing:** 100% Sweep tested 5 MHz to 3 GHz.

### Notes (Overall)

**Notes:** For use in field deployable applications where high flexibility, wide temperature range, and durability are required. Permanently indent printed for field identification.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1857A B591000	1,000 FT	86.000 LB	BLACK, MATTE	C	#22 FLDPE VLDPE PVC TRIAX
1857A B594000	4,000 FT	336.000 LB	BLACK, MATTE		#22 FLDPE VLDPE PVC TRIAX
1857A B59500	500 FT	42.500 LB	BLACK, MATTE	C	#22 FLDPE VLDPE PVC TRIAX
1857A B595000	5,000 FT	435.000 LB	BLACK, MATTE		#22 FLDPE VLDPE PVC TRIAX
1857A 0021000	1,000 FT	86.000 LB	RED	C	#22 FLDPE VLDPE PVC TRIAX
1857A 0041000	1,000 FT	86.000 LB	YELLOW	C	#22 FLDPE VLDPE PVC TRIAX
1857A 004500	500 FT	42.500 LB	YELLOW		#22 FLDPE VLDPE PVC TRIAX
1857A 0061000	1,000 FT	86.000 LB	BLUE, LIGHT	C	#22 FLDPE VLDPE PVC TRIAX
1857A 0071000	1,000 FT	86.000 LB	VIOLET	C	#22 FLDPE VLDPE PVC TRIAX

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 09-19-2012

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