

## 7893A Multi-Conductor - Multi-Pair Cable

For more Information  
please call

1-800-Belden1



### Description:

26 AWG stranded tinned copper conductor, Datalene® insulation, pairs individually shielded with bonded Beldfoil® with a drain wire and have numbered and color-coded PVC jackets, overall Beldfoil® shield/drain wire + overall PVC jacket with nylon rip cord

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
16	26	7x34	TC - Tinned Copper	0.4826

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Datalene®	FHDPE - Foam High Density Polyethylene	1.3716

#### Inner Shield

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Bonded Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:

AWG
26

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	3.4544

Inner Jacket Color Code Chart:

Number	Color
1	Brown and Numbered 1
2	Red and Numbered 2
3	Orange and Numbered 3
4	Yellow and Numbered 4
5	Green and Numbered 5
6	Blue and Numbered 6
7	Purple and Numbered 7
8	Gray and Numbered 8
9	White and Numbered 9
10	Black and Numbered 10
11	Tan and Numbered 11
12	Pink and Numbered 12
13	Gray/Brown Stripe and Numbered 13
14	Gray/Red Stripe and Numbered 14
15	Gray/Orange Stripe and Numbered 15
16	Gray/Yellow Stripe and Numbered 16

**Outer Shield****Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
26	Stranded	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Outer Jacket Ripcord:** Yes

**Overall Cabling**

**Overall Nominal Diameter:** 19.558 mm

**Pair****Pair Color Code Chart:**

Number	Color
1	Red & Black
2	Red & Black
3	Red & Black
4	Red & Black
5	Red & Black
6	Red & Black
7	Red & Black
8	Red & Black
9	Red & Black
10	Red & Black
11	Red & Black
12	Red & Black
13	Red & Black
14	Red & Black
15	Red & Black
16	Red & Black

**Pair Lay Length & Direction:**

Lay Length (cm)
2.54

**Mechanical Characteristics (Overall)**

<b>Operating Temperature Range:</b>	-30°C To +80°C
<b>Bulk Cable Weight:</b>	294.664 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	760.642 N
<b>Min. Bend Radius (Install)/Minor Axis:</b>	196.850 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

<b>NEC/(UL) Specification:</b>	CM
<b>CEC/C(UL) Specification:</b>	CM
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2004

## 7893A Multi-Conductor - Multi-Pair Cable

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

### Flame Test

UL Flame Test: UL1685 UL Loading

C(UL) Flame Test: FT4

### Plenum/Non-Plenum

Plenum (Y/N): No

## Surface Printing (Overall)

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

110

### Nom. Inductance:

Inductance (µH/m)

0.82025

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

41.0125

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

82.025

### Nominal Velocity of Propagation:

VP (%)

76

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

122.381

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 83.666 Ohm/km

### Nom. Attenuation:

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

.384 2.75604

.7056 3.74034

.768 3.87158

1.024 4.39654

1.4112 4.9215

1.536 5.05274

2.048 5.54489

2.8224 6.10266

3.0720 6.29952

4.096 7.02134

5.6448 7.8744

6.144 8.10407

8.192 9.02275

11.2896 10.1383

12.288 10.4336

24.576 13.7802

## Notes (Overall)

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**Notes:** Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7893A Z4B1000	305 MT	108.863 KG	VIO Z4B	C	16 #26 FHDPE FSPR PVC FS PVC

**Notes:**

C = CRATE REEL PUT-UP.

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