

## 7890A Multi-Conductor - Multi-Pair Cable



For more Information  
please call

1-800-Belden1



### General 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 ripcord.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
4	26	7x34	TC - Tinned Copper	.019

Total Number of Conductors: 8

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Datalene®	FHDPE - Foam High Density Polyethylene	.054

#### 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. (in.)
PVC - Polyvinyl Chloride	.136

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

#### 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 Cable**

**Overall Nominal Diameter:** 0.399 in.

**Pair**

**Pair Color Code Chart:**

Number	Color
1	Red & Black
2	Red & Black
3	Red & Black
4	Red & Black

**Mechanical Characteristics (Overall)**

**Operating Temperature Range:** -30°C To +80°C

**Bulk Cable Weight:** 52 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 45 lbs.

**Min. Bend Radius/Minor Axis:** 4 in.

**Applicable Specifications and Agency Compliance (Overall)**

**Applicable Standards & Environmental Programs**

**NEC/(UL) Specification:** CM

**CEC/C(UL) Specification:** CM

**EU Directive 2011/65/EU (ROHS II):** Yes

**EU CE Mark:** Yes

**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

**Flame Test**

**UL Flame Test:** UL1685 UL Loading

**CSA 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/ft)**

.25

**Nom. Capacitance Conductor to Conductor:**

**Capacitance (pF/ft)**

13

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

Capacitance (pF/ft)  
25.0

**Nominal Velocity of Propagation:**

VP (%)  
76

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
37.3

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 25.500 Ohm/1000 ft

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
.384	.84
.7056	1.14
.768	1.18
1.024	1.34
1.4112	1.50
1.536	1.54
2.048	1.69
2.8224	1.86
3.0720	1.92
4.096	2.14
5.6448	2.40
6.144	2.47
8.192	2.75
11.2896	3.09
12.288	3.18
24.576	4.20

### Notes (Overall)

**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
7890A Z4B1000	1,000 FT	61.000 LB	VIO Z4B	C	4 #26 FHDPE FS PR PVC FS PVC
7890A Z4B500	500 FT	31.000 LB	VIO Z4B	C	4 #26 FHDPE FS PR PVC FS PVC

**Notes:**  
C = CRATE REEL PUT-UP.

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