

## 7880A Multi-Conductor - Multi-Pair Snake 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)
8	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

#### 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

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### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Outer Jacket Ripcord:** Yes

### Overall Cabling

**Overall Nominal Diameter:** 13.741 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

**Pair Lay Length & Direction:**

Lay Length (mm)
25.3999

### Mechanical Characteristics (Overall)

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

**Bulk Cable Weight:** 156.261 Kg/Km

**Max. Recommended Pulling Tension:** 373.649 N

**Min. Bend Radius (Install)/Minor Axis:** 139.700 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

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

**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

**C(UL) Flame Test:** FT4

#### Plenum/Non-Plenum

**Plenum (Y/N):** No

### Surface Printing (Overall)

### Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

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**Impedance (Ohm)**

110

**Nom. Inductance:**

**Inductance (µH/m)**

0.82025

**Nom. Capacitance Conductor to Conductor:**

**Capacitance (pF/m)**

42.653

**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)

**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
7880A Z4B1000	305 MT	64.410 KG	VIO Z4B	C	8 #26 FHDPE FS PR PVC PVC
7880A Z4B250	76 MT	12.701 KG	VIO Z4B	C	8 #26 FHDPE FS PR PVC PVC
7880A Z4B500	152 MT	25.855 KG	VIO Z4B	C	8 #26 FHDPE FS PR PVC PVC

**Notes:**

C = CRATE REEL PUT-UP.

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## 7880A Multi-Conductor - Multi-Pair Snake Cable

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