

## 7880A Multi-Conductor - Multi-Pair Snake 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 rip cord

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 8       | 26  | 7x34      | TC - Tinned Copper | .019       |

Total Number of Conductors:

16

**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 |
| 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            |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Ripcord:

Yes

**Overall Cable**

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Overall Nominal Diameter:

0.541 in.

## 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 |

## Mechanical Characteristics (Overall)

|                                   |                  |
|-----------------------------------|------------------|
| Operating Temperature Range:      | -30°C To +80°C   |
| Bulk Cable Weight:                | 100 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 84 lbs.          |
| Min. Bend Radius/Minor Axis:      | 5.500 in.        |

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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        |
| MIL 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 &amp; Shield:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 25.0                |

Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 76     |

Nom. Conductor DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 37.3                     |

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

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                 |
|---------------|----------|-------------|---------|-------|---------------------------|
| 7880A Z4B1000 | 1,000 FT | 142.000 LB  | VIO Z4B | C     | 8 #26 FHDPE FS PR PVC PVC |
| 7880A Z4B250  | 250 FT   | 28.000 LB   | VIO Z4B | C     | 8 #26 FHDPE FS PR PVC PVC |
| 7880A Z4B500  | 500 FT   | 57.000 LB   | VIO Z4B | C     | 8 #26 FHDPE FS PR PVC PVC |

## Notes:

C = CRATE REEL PUT-UP.

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