

## 8112 Multi-Conductor - Parallel Digital Video

For more Information  
please call

1-800-Belden1



### Description:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs, overall Beldfoil® + TC braid shield (65% coverage), TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|--------------|---------|-----|-----------|--------------------|
| 1            | 12      | 24  | 7x32      | TC - Tinned Copper |

Total Number of Conductors: 25

#### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material     | Wall Thickness (in.) |
|-----------------------|-------------------------|----------------------|
| Datalene®             | FPE - Foam Polyethylene | 0.013                |

#### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material                        | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1       | Beldfoil®               | Tape  | Aluminum Foil-Polyester Tape w/Shorting Fold | 100          |
| 2       |                         | Braid | TC - Tinned Copper                           | 65           |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | 7x32      | TC - Tinned Copper            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.035                     |

#### Overall Cable

Overall Nominal Diameter: 0.440 in.

#### Pair

Pair Color Code Chart:

| Number           | Color                       |
|------------------|-----------------------------|
| 1                | White/Blue & Blue/White     |
| 2                | White/Orange & Orange/White |
| 3                | White/Green & Green/White   |
| 4                | White/Brown & Brown/White   |
| 5                | White/Gray & Gray/White     |
| 6                | Red/Blue & Blue/Red         |
| 7                | Red/Orange & Orange/Red     |
| 8                | Red/Green & Green/Red       |
| 9                | Red/Brown & Brown/Red       |
| 10               | Red/Gray & Gray/Red         |
| 11               | Black/Blue & Blue/Black     |
| 12               | Black/Orange & Orange/Black |
| Single Conductor | Gray                        |

## Mechanical Characteristics (Overall)

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -30°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight:                | 92 lbs/1000 ft.          |
| Max. Recommended Pulling Tension: | 77 lbs.                  |
| Min. Bend Radius/Minor Axis:      | 4.500 in.                |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification:               | CM                        |
| CEC/C(UL) Specification:              | CM                        |
| AWM Specification:                    | UL Style 2919 (30 V 80°C) |
| 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                       |

### Flame Test

|                |                   |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

### Plenum/Non-Plenum

|                |       |
|----------------|-------|
| Plenum (Y/N):  | No    |
| Plenum Number: | 88112 |

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

100

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

12.5

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

Capacitance (pF/ft)

22

### Nominal Velocity of Propagation:

VP (%)

78

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

24

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.4

### Max. Operating Voltage - UL:

Voltage

|                              |
|------------------------------|
| 30 V RMS (UL AWM Style 2919) |
| 300 V RMS                    |

**Max. Recommended Current:**

|                               |
|-------------------------------|
| <b>Current</b>                |
| 1.1 Amps per conductor @ 25°C |

### Notes (Overall)

**Notes:** 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                |
|--------------|----------|-------------|--------|-------|--------------------------|
| 8112 060100  | 100 FT   | 9.200 LB    | CHROME |       | 12 PR+1 #24 FHDPE SH PVC |
| 8112 0601000 | 1,000 FT | 101.000 LB  | CHROME | C     | 12 PR+1 #24 FHDPE SH PVC |
| 8112 060500  | 500 FT   | 51.000 LB   | CHROME | C     | 12 PR+1 #24 FHDPE SH PVC |

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

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