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please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, Datalene® insulation, twisted pair with fillers, overall Beldfoil® + TC braid shield (90% coverage), 24 AWG drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1       | 22  | 7x30      | TC - Tinned Copper | .030       |

Total Number of Conductors: 2

#### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material                    | Dia. (in.) |
|-----------------------|--|------------|
| Datalene®             | FHDPE - Foam High Density Polyethylene | .082       |

#### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material        | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1       | Beldfoil® (Z-fold®)     | Tape  | Aluminum Foil-Polyester Tape | 100          |
| 2       |                         | Braid | TC - Tinned Copper           | 90           |

Outer Shield Drain Wire AWG:

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

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cable

Overall Nominal Diameter: 0.235 in.

#### Pair

Pair Color Code Chart:

| Number | Color              |
|--------|--------------------|
| 1      | Light Blue & White |

### Mechanical Characteristics (Overall)

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -30°C To +60°C  |
| Non-UL Temperature Rating:        | 60°C            |
| Bulk Cable Weight:                | 30 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 56 lbs.         |
| Min. Bend Radius/Minor Axis:      | 2.500 in.       |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| 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        |

## 1696A Multi-Conductor - Single-Pair Cable

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

MIL Order #39 (China RoHS): Yes

Other Specification: AES/EBU

### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

110

#### Nom. Inductance:

Inductance (µH/ft)

.18

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

13.0

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

Capacitance (pF/ft)

26

#### Nominal Velocity of Propagation:

VP (%)

76

#### Nominal Delay:

Delay (ns/ft)

1.3

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

17.8

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.89

#### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| .384        | .58                      |
| .7056       | .69                      |
| .768        | .7                       |
| 1.024       | .76                      |
| 1.4112      | .82                      |
| 1.536       | .84                      |
| 2.048       | .88                      |
| 2.8224      | .93                      |
| 3.072       | .95                      |
| 4.096       | 1.09                     |
| 5.6448      | 1.32                     |
| 6.144       | 1.37                     |
| 8.192       | 1.48                     |
| 11.2896     | 1.74                     |
| 12.288      | 1.77                     |
| 24.576      | 2.41                     |

#### Max. Operating Voltage - Non-UL:

Voltage

300 V RMS

#### Max. Recommended Current:

Current

3.8 Amps per conductor @ 25°C

### Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color        | Notes | Item Desc            |
|----------------|----------|-------------|--------------|-------|----------------------|
| 1696A B59U1000 | 1,000 FT | 32.000 LB   | BLACK, MATTE |       | 2 #22 FHDPE SHLD PVC |
| 1696A B59I1000 | 1,000 FT | 34.000 LB   | BLACK, MATTE | C     | 2 #22 FHDPE SHLD PVC |
| 1696A B59250   | 250 FT   | 8.500 LB    | BLACK, MATTE |       | 2 #22 FHDPE SHLD PVC |
| 1696A B59500   | 500 FT   | 17.000 LB   | BLACK, MATTE |       | 2 #22 FHDPE SHLD PVC |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 10-18-2012

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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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