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1-800-Belden1



General Description:

16 AWG solid bare copper conductors, foam polyethylene insulation, Duofoil® (100% coverage) plus a tinned copper braid shield (90% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1 | 16 | Solid | BC - Bare Copper | .051 |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Material |
|-------------------------|
| FPE - Foam Polyethylene |

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.440 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|--------------|
| 1 | Blue & Clear |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 2448)

Bulk Cable Weight: 98 lbs/1000 ft.

Max. Recommended Pulling Tension: 73 lbs.

Min. Bend Radius/Minor Axis: 4.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification: | CMX |
| CEC/C(UL) Specification: | CMX |
| AWM Specification: | UL Style 2448 (300 V 60°C) |
| 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, VW-1 |
|----------------|-------------------------|

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|------------------------|
| Impedance (Ohm) |
| 124 |

Nom. Inductance:

| | |
|--------------------|---------------------------|
| Description | Inductance (µH/ft) |
| (Loop) | 0.240 |

Nom. Capacitance Conductor to Conductor:

| |
|----------------------------|
| Capacitance (pF/ft) |
| 10.9 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|----------------------------|
| Capacitance (pF/ft) |
| 19.3 |

Nominal Velocity of Propagation:

| |
|---------------|
| VP (%) |
| 78 |

Nominal Delay:

| |
|----------------------|
| Delay (ns/ft) |
| 1.30 |

Nom. Conductor DC Resistance:

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 4.2 |

Nominal Outer Shield DC Resistance:

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 1.3 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1 | 0.2 |
| 10 | 0.7 |
| 50 | 1.8 |
| 100 | 2.9 |
| 200 | 4.1 |
| 400 | 6.2 |

Max. Operating Voltage - UL:

| |
|------------------------------|
| Voltage |
| 30 V RMS (UL AWM Style 2448) |
| 300 V RMS (CMX) |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|-------|-------|--------------------|
| 9860 0101000 | 1,000 FT | 103.000 LB | BLACK | C | 2 #16 FPE SHLD PVC |
| 9860 0102000 | 2,000 FT | 202.000 LB | BLACK | C | 2 #16 FPE SHLD PVC |
| 9860 010500 | 500 FT | 52.000 LB | BLACK | C | 2 #16 FPE SHLD PVC |

Notes:

C = CRATE REEL PUT-UP.

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9860 Twinax - Twinaxial Cable

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