Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

8168 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital



For more Information please call

1-800-Belden1



General Description:

Max. Recommended Pulling Tension:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil + TC braid shield (65% coverage), drain wire, PVC jacket.

| Physical Characteristics (Overall) | | | | |
|---|--------------------------|--|--|--|
| Conductor AWG: | | | | |
| # Pairs AWG Stranding Conductor Material | | | | |
| 8 24 7x32 TC - Tinned Copper | | | | |
| Total Number of Conductors: | 16 | | | |
| Insulation | | | | |
| Insulation Material: Insulation Trade Name Insulation Material Wall Thickness (i | | | | |
| Datalene® FPE - Foam Polyethylene 0.019 | | | | |
| Inner Shield Inner Shield Material: | | | | |
| | prage (%) | | | |
| Beldfoil® (Z-Fold®) Tape Aluminum Foil-Polyester Tape 100 | | | | |
| Inner Shield Drain Wire AWG: | | | | |
| AWG 24 | | | | |
| Inner Shield Drain Wire Stranding: | Stranded | | | |
| Inner Shield Drain Wire Conductor Material: | TC - Tinned Copper | | | |
| Outer Shield | | | | |
| Outer Shield Material: | | | | |
| Layer # Outer Shield Trade Name Type Outer Shield Material | Coverage (%) | | | |
| 1 Beldfoil® Tape Aluminum Foil-Polyester Tape | ape 100 | | | |
| 2 Braid TC - Tinned Copper | 65 | | | |
| Outer Jacket | | | | |
| Outer Jacket Material Nom. Wall Thickness (in.) | | | | |
| PVC - Polyvinyl Chloride 0.048 | | | | |
| Overall Cable | | | | |
| Overall Nominal Diameter: | 0.479 in. | | | |
| Pair | | | | |
| Pair Color Code Chart: | | | | |
| Number Color | | | | |
| 1 Black & Red 2 Black & White | | | | |
| 3 Black & Green | | | | |
| 4 Black & Blue | | | | |
| 5 Black & Yellow | | | | |
| 6 Black & Brown | | | | |
| 7 Black & Orange | | | | |
| 8 Red & White | | | | |
| Mechanical Characteristics (Overall) | | | | |
| Operating Temperature Range: | -40°C To +60°C | | | |
| UL Temperature Rating: | 60°C (UL AWM Style 2493) | | | |
| Bulk Cable Weight: | 108 lbs/1000 ft. | | | |

184 lbs.

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| Min. Bend Radius/Minor Axis: | 5 in. |
|---|----------------------------|
| Applicable Specifications and Agency Compliance (Or | verall) |
| Applicable Standards & Environmental Programs | voran) |
| NEC/(UL) Specification: | СМ |
| CEC/C(UL) Specification: | СМ |
| AWM Specification: | UL Style 2493 (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 |
| MII Order #39 (China RoHS): | Yes |
| Flame Test | |
| UL Flame Test: | UL1581 Vertical Tray |
| Plenum/Non-Plenum | |
| Plenum (Y/N): | No |
| 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) 3 | |
| Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: | 18 Ohm/1000 ft |
| Max. Operating Voltage - UL: Voltage | |
| 300 V RMS | |
| | |

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|--------|-------|--------------------------|
| 8168 060100 | 100 FT | 12.500 LB | CHROME | С | 8 FS PR #24 FHDPE SH PVC |
| 8168 0601000 | 1,000 FT | 115.000 LB | CHROME | С | 8 FS PR #24 FHDPE SH PVC |
| 8168 060500 | 500 FT | 61.500 LB | CHROME | С | 8 FS PR #24 FHDPE SH PVC |

Notes: C = CRATE REEL PUT-UP.



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