Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8164 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital



For more Information please call

1-800-Belden1



Description:

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 4 24 7x32 TC - Tinned Copper |
| 4 24 7x32 TC - Thined Copper |
| Insulation Insulation Material: |
| Insulation Trade Name Insulation Material |
| Datalene® FPE - Foam Polyethylene |
| Inner Shield Inner Shield Material: |
| Inner Shield Trade Name Type Inner Shield Material Coverage (%) |
| Beldfoil® (Z-Fold®) Tape Aluminum Foil-Polyester Tape 100 |
| Inner Shield Drain Wire AWG: |
| AWG 24 |
| Inner Shield Drain Wire Stranding: 7x32 |
| 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 100 |
| 2 Braid TC - Tinned Copper 65 |
| Outer Jacket |
| Outer Jacket Material: |
| Outer Jacket Material |
| PVC - Polyvinyl Chloride |
| Overall Cabling |
| Overall Nominal Diameter: 9.855 mm |
| Pair |
| Pair Color Code Chart: |
| Number Color 1 Black & Red |
| 1 Black & Red 2 Black & White |
| 3 Black & Green |
| 4 Black & Blue |
| Pair Lay Length & Direction: |
| Lay Length (mm) Twists/ft. (twist/m) |
| |

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8164 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital

| perating Temperature Range: | -40°C To +60°C |
|---|----------------------------|
| Non-UL Temperature Rating: | 60°C (UL AWM Style 2493) |
| Bulk Cable Weight: | 111.615 Kg/Km |
| Max. Recommended Pulling Tension: | 493.750 N |
| Min. Bend Radius (Install)/Minor Axis: | 101.600 mm |
| | |
| icable Specifications and Agency Com | |
| licable Standards & Environmental Program NEC/(UL) Specification: | IS CM |
| CEC/C(UL) Specification: | СМ |
| AWM Specification: | - |
| • | UL Style 2493 (300 V 60°C) |
| | 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 |
| um/Non-Plenum | |
| Plenum (Y/N): | No |
| trical Characteristics (Overall) | |
| . Characteristic Impedance: | |
| npedance (Ohm) | |
| . Capacitance Conductor to Conductor: | |
| apacitance (pF/m) | |
| 1.0125 | |
| . Capacitance Cond. to Other Conductor & Shield | : |
| | |
| apacitance (pF/m) | |
| 2.182 | |
| inal Velocity of Propagation: | |
| 2.182 | |
| 2.182 inal Velocity of Propagation: P (%) | |
| 2.182 inal Velocity of Propagation: P (%) 3 | |
| 2.182 inal Velocity of Propagation: P (%) 3 . Conductor DC Resistance: | |
| 2.182 inal Velocity of Propagation: P (%) 3 . Conductor DC Resistance: CR @ 20°C (Ohm/km) 3.744 inal Outer Shield DC Resistance: | |
| 2.182 inal Velocity of Propagation: P (%) 3 . Conductor DC Resistance: CR @ 20°C (Ohm/km) 3.744 inal Outer Shield DC Resistance: CR @ 20°C (Ohm/km) | |
| 2.182 inal Velocity of Propagation: P (%) 3 . Conductor DC Resistance: CR @ 20°C (Ohm/km) 3.744 inal Outer Shield DC Resistance: CR @ 20°C (Ohm/km) 0.4992 | |
| 2.182 inal Velocity of Propagation: P (%) 3 . Conductor DC Resistance: CR @ 20°C (Ohm/km) 3.744 inal Outer Shield DC Resistance: CR @ 20°C (Ohm/km) | 59.058 Ohm/km |

Max. Recommended Current:

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8164 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital

Current

2.5 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.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|--------|-------------|--------|-------|--------------------------|
| 8164 060100 | 30 MT | 3.719 KG | CHROME | | 4 FS PR #24 FHDPE SH PVC |
| 8164 0601000 | 305 MT | 35.834 KG | CHROME | С | 4 FS PR #24 FHDPE SH PVC |
| 8164 060500 | 152 MT | 17.917 KG | CHROME | С | 4 FS PR #24 FHDPE SH PVC |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-16-2008

© 2011 Belden, Inc All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.