

8165 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 |
|---------|-----|-----------|--------------------|
| 5 | 24 | 7x32 | TC - Tinned 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 Cable

Overall Nominal Diameter: 0.413 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|----------------|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |
| 4 | Black & Blue |
| 5 | Black & Yellow |

Pair Lay Length & Direction:

| Lay Length (in.) | Twists/ft. (twist/ft) |
|------------------|-----------------------|
| | |

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| | |
|-------|-------|
| 1.300 | 9.000 |
|-------|-------|

Mechanical Characteristics (Overall)

| | |
|--|--------------------------|
| Operating Temperature Range: | -40°C To +60°C |
| Non-UL Temperature Rating: | 60°C (UL AWM Style 2493) |
| Bulk Cable Weight: | 100 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 127 lbs. |
| Min. Bend Radius (Install)/Minor Axis: | 4.250 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification: | CM |
| CEC/C(UL) Specification: | CM |
| AWM Specification: | UL Style 2493 (300 V 60°C) |
| 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 |

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) |
| 24.0 |

Nominal Outer Shield DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 3.4 |

| | |
|---|----------------|
| Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: | 18 Ohm/1000 ft |
|---|----------------|

Max. Operating Voltage - UL:

| |
|-----------|
| Voltage |
| 300 V RMS |

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Max. Recommended Current:

| Current |
|-------------------------------|
| 1.6 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 |
|--------------|----------|-------------|--------|-------|--------------------------|
| 8165 060100 | 100 FT | 9.100 LB | CHROME | | 5 FS PR #24 FHDPE SH PVC |
| 8165 0601000 | 1,000 FT | 90.000 LB | CHROME | C | 5 FS PR #24 FHDPE SH PVC |
| 8165 060500 | 500 FT | 45.500 LB | CHROME | C | 5 FS PR #24 FHDPE SH PVC |

Notes:

C = CRATE REEL PUT-UP.

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