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please call

1-800-Belden1



Description:

24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 24 AWG stranded tinned copper drain wire, overall PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 3 | 24 | 7x32 | TC - Tinned Copper | 0.6096 |

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (mm) |
|-----------------------|-------------------------|-----------|
| Datalene® | FPE - Foam Polyethylene | 1.5494 |

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:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Outer Jacket

Outer Jacket Material:

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

Overall Cabling

Overall Nominal Diameter: 8.484 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|---------------|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |

Pair Lay Length & Direction:

| Lay Length (mm) | Twists/ft. (twist/m) |
|-----------------|----------------------|
| 44.449825 | 22.475 |

Mechanical Characteristics (Overall)

| | |
|--|--------------------------|
| Operating Temperature Range: | -20°C To +80°C |
| UL Temperature Rating: | 60°C (UL AWM Style 2493) |
| Bulk Cable Weight: | 68.457 Kg/Km |
| Max. Recommended Pulling Tension: | 226.858 N |
| Min. Bend Radius (Install)/Minor Axis: | 88.900 mm |

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 |

Flame Test

| | |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 89730 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

100

Nom. Inductance:

Inductance (µH/m)

0.75463

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

41.0125

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

76.1192

Nom. Mutual Capacitance:

Capacitance (pF/m)

127.959

Nominal Velocity of Propagation:

VP (%)

76

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

78.744

9730 Multi-Conductor - Multi-Pair Snake Cable

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 49.215 Ohm/km

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| .384 | 2.42794 |
| .7056 | 2.85447 |
| .768 | 2.88728 |
| 1.024 | 3.08414 |
| 1.4112 | 3.31381 |
| 1.536 | 3.37943 |
| 2.048 | 3.70753 |
| 2.8224 | 4.23249 |
| 3.072 | 4.42935 |
| 4.096 | 5.15117 |
| 5.6448 | 5.84018 |
| 6.144 | 6.03704 |
| 8.192 | 6.98853 |
| 11.2896 | 8.03845 |
| 12.288 | 8.43217 |
| 24.576 | 11.7132 |

Max. Operating Voltage - UL:

| Voltage |
|-------------------------------|
| 300 V RMS (UL AWM Style 2493) |

Max. Recommended Current:

| 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 |
|---------------|----------|-------------|--------|-------|-----------------------|
| 9730 060100 | 30 MT | 2.313 KG | CHROME | | 3 FS PR #24 FHDPE PVC |
| 9730 0601000 | 305 MT | 20.865 KG | CHROME | C | 3 FS PR #24 FHDPE PVC |
| 9730 06010000 | 3,048 MT | 235.869 KG | CHROME | C Y | 3 FSPR #24 FHDPE PVC |
| 9730 060500 | 152 MT | 11.113 KG | CHROME | C | 3 FS PR #24 FHDPE PVC |

Notes:

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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