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1-800-Belden1



General 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 |

Total Number of Conductors: 6

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Wall Thickness (mm) |
|-----------------------|-------------------------|---------------------|
| Datalene® | FPE - Foam Polyethylene | 0.483 |

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 | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.219 |

Overall Cable

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 (twist/m) | Direction |
|-----------------|------------------|-----------|
| 44.450 | 22.639 | Left Hand |

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|-------------------------|
| Operating Temperature Range: | -20°C To +80°C |
| UL Temperature Rating: | 80C (UL AWM Style 2919) |
| Bulk Cable Weight: | 62.504 Kg/Km |
| Max. Recommended Pulling Tension: | 226.858 N |
| Min. Bend Radius/Minor Axis: | 88.900 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification: | CM |
| NEC Articles: | 800 |
| CEC/C(UL) Specification: | CM |
| AWM Specification: | UL Style 2919 (30 V 80°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: | UL1685 UL Loading |
| CSA Flame Test: | FT1 |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

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 |

Nominal Velocity of Propagation:

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

METRIC MEASUREMENT VERSION

9730 Multi-Conductor - Multi-Pair Snake Cable

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Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 78.744 |

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 |

Max. Recommended Current:

| Description | Current |
|----------------------|---------------------------------------|
| 35C Temperature Rise | 2.5 Amps per conductor @ 25°C ambient |

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.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|-----------|-------------|--------|-------|-----------------------|
| 9730 060100 | 100 FT | 5.100 LB | CHROME | | 3 FS PR #24 FHDPE PVC |
| 9730 0601000 | 1,000 FT | 46.000 LB | CHROME | C | 3 FS PR #24 FHDPE PVC |
| 9730 06010000 | 10,000 FT | 520.000 LB | CHROME | C Y | 3 FSPR #24 FHDPE PVC |
| 9730 060500 | 500 FT | 24.500 LB | CHROME | C | 3 FS PR #24 FHDPE PVC |
| 9730 0605000 | 5,000 FT | 235.000 LB | 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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9730 Multi-Conductor - Multi-Pair Snake Cable

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