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1-800-Belden1



General Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 6 | 24 | 7x32 | TC - Tinned Copper | 0.6096 |

Total Number of Conductors: 12

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 Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 10.693 mm

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 |

Pair Lay Length & Direction:

| Lay Length (mm) | Twists (twist/m) |
|-----------------|------------------|
| 43.18 | 22.475 |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80C (UL AWM Style 2919)

Bulk Cable Weight: 110.127 Kg/Km

Max. Recommended Pulling Tension: 458.165 N

Min. Bend Radius/Minor Axis: 107.950 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification: | CM |
| 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 |
|----------------|-------------------|

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 89731 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

100

Nom. Inductance:

Inductance (µH/m)

0.39372

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 (%)

76

Nominal Delay:

Delay (ns/m)

4.56059

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 |

METRIC MEASUREMENT VERSION

9731 Multi-Conductor - Multi-Pair Snake Cable

| | |
|---------|---------|
| 11.2896 | 8.03845 |
| 12.288 | 8.43217 |
| 24.576 | 11.7132 |

Max. Operating Voltage - UL:

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

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.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|--------|-------|-----------------------|
| 9731 060100 | 100 FT | 9.100 LB | CHROME | C | 6 FS PR #24 FHDPE PVC |
| 9731 0601000 | 1,000 FT | 83.000 LB | CHROME | C | 6 FS PR #24 FHDPE PVC |
| 9731 060500 | 500 FT | 42.000 LB | CHROME | C | 6 FS PR #24 FHDPE PVC |
| 9731 0605000 | 5,000 FT | 435.000 LB | CHROME | | 6 FS PR #24 FHDPE PVC |

Notes:

C = CRATE REEL PUT-UP.

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