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1-800-Belden1



General Description:

22 AWG stranded (19x34) tinned copper conductors, Datalene® insulation, Duofoil® (100% Coverage) plus a stranded tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 1 | 22 | 19x34 | TC - Tinned Copper | 0.7874 |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material |
|-----------------------|--|
| Datalene® | FHDPE - Foam High Density Polyethylene |

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|------|--|--------------|
| Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 22 | 19x34 | TC - Tinned Copper |

Outer Shield Drain Wire Diameter: .031

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 8.763 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|----------------|
| 1 | Black & Yellow |

Pair Lay Length & Direction:

| Lay Length (cm) | Lay Length Twists (twist/m) |
|-----------------|-----------------------------|
| 7.62 | 13.124 |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 61.016 Kg/Km

Max. Recommended Pulling Tension: 124.550 N

Min. Bend Radius/Minor Axis: 88.900 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification: | CL2X, CMX |
| CEC/C(UL) Specification: | CMX |
| AWM Specification: | UL Style 2668 (30 V 60°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: | VW-1 |
|----------------|------|

Suitability

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

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 89182 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|-----------------|
| Impedance (Ohm) |
| 150 |

Nom. Inductance:

| |
|-------------------|
| Inductance (µH/m) |
| 0.961333 |

Nom. Capacitance Conductor to Conductor:

| |
|--------------------|
| Capacitance (pF/m) |
| 28.8728 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 54.1365 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 78 |

Nominal Delay:

| |
|--------------|
| Delay (ns/m) |
| 4.2653 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 58.238 |

Nominal Outer Shield DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 58.238 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 1.3124 |
| 10 | 3.9372 |
| 50 | 8.8587 |
| 100 | 14.1083 |
| 200 | 20.3422 |
| 400 | 28.8728 |

Max. Operating Voltage - UL:

| Voltage |
|------------------------------|
| 300 V RMS (CMX) |
| 30 V RMS (UL AWM Style 2668) |
| 150 V RMS (CL2X) |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|-------|-------|----------------------|
| 9182 010U500 | 152 MT | 9.752 KG | BLACK | | 2 #22 FHDPE SHLD PVC |
| 9182 0101000 | 305 MT | 19.958 KG | BLACK | C | 2 #22 FHDPE SHLD PVC |
| 9182 010500 | 152 MT | 10.433 KG | BLACK | C | 2 #22 FHDPE SHLD PVC |
| 9182 0105000 | 1,524 MT | 108.863 KG | BLACK | C | 2 #22 FHDPE SHLD PVC |

Notes:

C = CRATE REEL PUT-UP.

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