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1-800-Belden1



General Description:

20 AWG stranded (7x28) .038" tinned copper conductors, polyethylene insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (55% coverage), sunlight-resistant PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1 | 20 | 7x28 | TC - Tinned Copper | 0.038 |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---------------------|------------|
| PE - Polyethylene | 0.078 |

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 | 55 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 20 | 7x28H | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.238 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|--------------|
| 1 | Clear & Blue |

Pair Lay Length & Direction:

| Twists (twist/ft) |
|-------------------|
| 2.750 |

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|--------------------------|
| Operating Temperature Range: | -40°C To +80°C |
| UL Temperature Rating: | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight: | 36 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 48 lbs. |
| Min. Bend Radius/Minor Axis: | 2.400 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|------------------------------------|----------------------------|
| NEC/(UL) Specification: | CL2, CM |
| CEC/C(UL) Specification: | CM |
| AWM Specification: | UL Style 2464 (300 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): | 01/01/2005 |
| 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 |
| PMSHA Specification: | P-7K-SC-182141 |
| Customer Part Number Reference Specification: | Allen Bradley P/N 1770-CD |

Flame Test

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

Suitability

| | |
|----------------------|-----|
| Sunlight Resistance: | Yes |
|----------------------|-----|

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum Number: | 89463 |
|----------------|-------|

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|------------------------|
| Impedance (Ohm) |
| 78 |

Nom. Inductance:

| |
|---------------------------|
| Inductance (µH/ft) |
| 0.12 |

Nom. Capacitance Conductor to Conductor:

| |
|----------------------------|
| Capacitance (pF/ft) |
| 19.7 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|----------------------------|
| Capacitance (pF/ft) |
| 36 |

Nominal Velocity of Propagation:

| |
|---------------|
| VP (%) |
| 66 |

Nominal Delay:

| |
|----------------------|
| Delay (ns/ft) |
| 1.54 |

Nom. Conductor DC Resistance:

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 9.5 |

Nominal Outer Shield DC Resistance:

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 4.1 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1 | 0.6 |
| 10 | 2.1 |
| 50 | 5.0 |
| 100 | 7.5 |
| 200 | 11.0 |
| 400 | 16.0 |

Max. Operating Voltage - UL:

| |
|-------------------------------|
| Voltage |
| 300 V RMS (UL AWM Style 2464) |
| 300 V RMS (NEC Type CM) |
| 300 V RMS (NEC Type CL2) |

Other Electrical Characteristic 1: DC Resistance Unbalanced: .77 Ohms/1000 ft Max

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

| | | | | | |
|---------------|-----------|------------|--------------|-----|---------------|
| 9463 J22U1000 | 1,000 FT | 38.000 LB | BLUE, STRONG | | 78 OHM TWINAX |
| 9463 J22U500 | 500 FT | 19.500 LB | BLUE, STRONG | | 78 OHM TWINAX |
| 9463 J22100 | 100 FT | 4.400 LB | BLUE, STRONG | | 78 OHM TWINAX |
| 9463 J221000 | 1,000 FT | 39.000 LB | BLUE, STRONG | C | 78 OHM TWINAX |
| 9463 J2212000 | 12,000 FT | 492.000 LB | BLUE, STRONG | C Y | 78 OHM TWINAX |
| 9463 J22500 | 500 FT | 19.500 LB | BLUE, STRONG | | 78 OHM TWINAX |
| 9463 J226000 | 6,000 FT | 234.000 LB | BLUE, STRONG | C Z | 78 OHM TWINAX |
| 9463 0011000 | 1,000 FT | 39.000 LB | BROWN | | 78 OHM TWINAX |
| 9463 00110000 | 10,000 FT | 380.000 LB | BROWN | C Z | 78 OHM TWINAX |
| 9463 00112000 | 12,000 FT | 492.000 LB | BROWN | C Y | 78 OHM TWINAX |
| 9463 0016000 | 6,000 FT | 234.000 LB | BROWN | C Z | 78 OHM TWINAX |
| 9463 0031000 | 1,000 FT | 39.000 LB | ORANGE | C | 78 OHM TWINAX |
| 9463 00310000 | 10,000 FT | 380.000 LB | ORANGE | C Z | 78 OHM TWINAX |
| 9463 00312000 | 12,000 FT | 492.000 LB | ORANGE | C Y | 78 OHM TWINAX |
| 9463 0036000 | 6,000 FT | 234.000 LB | ORANGE | C Z | 78 OHM TWINAX |
| 9463 0071000 | 1,000 FT | 39.000 LB | VIOLET | C | 00 OHM TWINAX |
| 9463 0076000 | 6,000 FT | 234.000 LB | VIOLET | C Z | 78 OHM TWINAX |

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'.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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