

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7102W Multi-Conductor - 300V C-TC+ Control Cables for Extreme Flexing



For more Information
please call

1-800-Belden1



General Description:

20 AWG stranded (74x38) bare copper conductors, PVC insulation, Unshielded, Oil- and Abrasion-resistant PVC Jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 3 | 20 | 74x38 | BC - Bare Copper |

Total Number of Conductors: 4

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 20

Ground Wire Stranding: 74x38

Ground Wire Conductor Material: BC - Bare Copper

Ground Wire Insulation Material: PVC - Polyvinyl Chloride

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | 0.015 |

Insulation Color Code Chart:

| Color | Description |
|-------|-----------------------|
| Red | Individually Numbered |

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|-------------------------------|---------------------------|
| TPE - Thermoplastic Elastomer | 0.037 |

Overall Cable

Overall Nominal Diameter: 0.256 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -50°C To +90°C

Other Temperature Range: Flexing: -5°C To +90°C

UL Temperature Rating: 90°C (UL AWM Style 2587)

Bulk Cable Weight: 49 lbs/1000 ft.

Max. Recommended Pulling Tension: 59 lbs.

Min. Bend Radius (Continuous Flexing): 2.600 in.

Flex Cycle Rating: 10 Million Flexes

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: PLTC

AWM Specification: UL Style 2587 (600 V 90°C), UL Style 21486 (1000 V 90°C)

CSA Specification: AWM I/II A/B

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| | |
|---------------------------------------|------------|
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 10/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU REACH SVHC Present: | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Flame Test

| | |
|------------------|---|
| UL Flame Test: | UL1685 FT4/IEEE 1202 Vertical Tray Flame Test |
| CSA Flame Test: | FT4 |
| IEEE Flame Test: | 1202 |

Suitability

| | |
|-----------------------|------------------|
| Suitability - Burial: | Yes |
| Sunlight Resistance: | Yes |
| Oil Resistance: | Yes - Oil Res II |
| Non-halogenated: | No |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 8.8 |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------|-------|---------------------|
| 7102W 0031000 | 1,000 FT | 44.000 LB | ORANGE | C | 3 #20 + GRD PVC TPE |
| 7102W 003250 | 250 FT | 13.000 LB | ORANGE | C | 3 #20 + GRD PVC TPE |
| 7102W 0035000 | 5,000 FT | 215.000 LB | | | 3 #20 + GRD PVC TPE |

Notes:

C = CRATE REEL PUT-UP.

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