

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 (mm)
PVC - Polyvinyl Chloride	0.381

Insulation Color Code Chart:

Color	Description
Black	Individually Numbered
Green/Yellow	Ground

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
TPE - Thermoplastic Elastomer	0.940

Overall Cable

Overall Nominal Diameter: 6.502 mm

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: 72.922 Kg/Km

Max. Recommended Pulling Tension: 262.444 N

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Min. Bend Radius (Continuous Flexing):	66.040 mm
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
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
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Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
28.8728

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	ORANGE		3 #20 + GRD PVC TPE

Notes:

C = CRATE REEL PUT-UP.

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METRIC MEASUREMENT VERSION

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