

7145w Multi-Conductor - 600V C-TC+ Control Cables for Extreme Flexing



For more Information
please call

1-800-Belden1

**General Description:**

12 AWG stranded (413x38) bare copper conductors, PVC-Nylon insulation, unshielded. oil- and abrasion-resistant PVC jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
3	12	413x38	BC - Bare Copper

Total Number of Conductors: 4

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 12

Ground Wire Stranding: 413x38

Ground Wire Conductor Material: BC - Bare Copper

Ground Wire Insulation Material: PVC/Nylon - Polyvinyl Chloride/Nylon

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.406
Nylon	0.127

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 (mm)
TPE - Thermoplastic Elastomer	1.194

Overall Cable

Overall Nominal Diameter: 11.328 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: 226.206 Kg/Km

Max. Recommended Pulling Tension: 1467.906 N

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Min. Bend Radius (Continuous Flexing):	114.300 mm
Flex Cycle Rating:	10 Million Flexes

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	TC-ER, WTTC
CEC/C(UL) Specification:	600V Type CIC TC
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
IEEE Specification:	1202
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)
18.7017

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7145W 0031000	1,000 FT	160.000 LB	ORANGE	C	3 #12 + GRD PVC/NYL TPE
7145W 003250	250 FT	43.000 LB	ORANGE	C	3 #12 + GRD PVC/NYL TPE
7145W 0035000	5,000 FT	830.000 LB	ORANGE		3 #12 + GRD PVC/NYL TPE

Notes:

C = CRATE REEL PUT-UP.

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