

Product: 29523C

VFD, 3C #10 Str BC XLPO Ins + #10 Symm. Seg. Gnd (3 of #14) Str BC, CTS, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B

Request Sample

Product Description

Belden Basics VFD, 3 Conductor 10AWG (7x18) Bare Copper XLPO Insulation M4 Color Code + 10AWG Symmetrical Segmented Ground (3 of 14AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B SUN RES DIR BUR Oil Resistant

Technical Specifications

Product Overview

Suitable Applications:	AC Motor drives, VFD, Variable Frequency drives

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
	10	7x18	BC - Bare Copper	3
Ground Wire	14	7x22	BC - Bare Copper	3

Conductor Count:	3

Insulation

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.031 in

Color Chart

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3

Outer Shield Material

Type	Layer	Material	Coverage [%]
Tape	1	Spiral Copper	100 %
Tape	2	Spiral Copper	100 %

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.506 in	0.06 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.988 Ohm/1000ft

Current

Element	Max. Recommended Current [A]
Per NEC	40 Amps per conductor @ 30°C

Voltage

Description	UL Description	Voltage Rating [V]
CSA AWM I/II A/B	NEC Type TC	1000 V RMS (CSA AWM I/II A/B)

Temperature Range

UL Temp Rating:	90°C Dry, 90°C Wet
Operating Temp Range:	-40°C To +90°C Wet/Dry

Mechanical Characteristics

Bulk Cable Weight:	238 lbs/1000ft
Max Recommended Pulling Tension:	444 lbs
Min Bend Radius/Minor Axis:	5.1 in

Standards

NEC Articles:	336 - ER
NEC/(UL) Specification:	TC-ER, XHHW-2 Singles
CSA AWM Specification:	[]
PMSHA Specification:	P-07-KA070003

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2007-08-15
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202, 383 Vertical Tray Flame Test (70,000 BTU)
UL voltage rating:	600 V RMS (NEC Type TC)

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	UPC	Length
29523C 0105000	Black	612825137702	5,000 ft

History

Update and Revision:	Revision Number: 0.307 Revision Date: 09-10-2019

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