

**Part Number: 29522C**



VFD, 3+3G(Segmented) C #12+3 of #16 Str BC, XLPO Ins M4, CTS, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B

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**Product Description**

Belden Construction Grade VFD Cables with Dual Copper Tape Shield, 3+3G(Segmented) Conductor 12+3 of 16AWG (7x20) Bare Copper, XLPO Insulation M4 Color Code, 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

**Technical Specifications**

**Product Overview**

Suitable Applications:	AC Motor drives, VFD, Variable Frequency drives
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**Physical Characteristics (Overall)**

**Conductor**

Element	AWG	Stranding	Material	No. of Conductors
	12	7x20	BC - Bare Copper	3
Ground Wire	16	7x24	BC - Bare Copper	3

Conductor Count:	3
Conductor Size:	12 AWG

**Insulation**

Material	Nominal Wall Thickness
XLP - Cross Linked Polyolefin	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	Description	Layer	Material	Coverage [%]
Tape	.002"	1	Spiral Copper	100 %
Tape	.002"	2	Spiral Copper	100 %

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.46 in	0.06 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
1.6 Ohm/1000ft

**Current**

Max. Recommended Current [A]
30 Amps per conductor @ 25°C

## Voltage

Description	UL Description	UL Voltage Rating	Voltage Rating [V]
CSA AWM I/II A/B	NEC Type TC	600 V RMS (NEC Type TC)	1000 V RMS (CSA AWM I/II A/B)
		1000 V RMS (WTTC)	

## Temperature Range

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

## Mechanical Characteristics

Bulk Cable Weight:	146 lbs/1000ft
Max Recommended Pulling Tension:	258 lbs
Min Bend Radius/Minor Axis:	4.6 in

## Standards

NEC Articles:	336 - ER
NEC/(UL) Specification:	TC-ER, XHHW-2 Singles
CSA AWM Specification:	1000 V AWM I/II A/B
PMSHA Specification:	P-07-KA070003-MSHA

## 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, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading, VW-1 (Singles)
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (NEC Type TC)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	UPC	Length
29522C 0105000	Black	612825137689	5,000 ft

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