



**Product: 29500** ☑

VFD 300% Gnd, 3C+G #16 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/#16 TC Drain, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

# Request Sample

# **Product Description**

Belden 300% Ground Flexible VFD, 3 Conductor 16AWG (26x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/16AWG Tinned Copper Drain, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC 1000V CSA AWM I/II A/B 600V CIC TC SUN RES DIR BUR Oil Resistant

## **Technical Specifications**

#### **Product Overview**

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems

### **Construction Details**

#### Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	3	16 AWG	26x30	TC - Tinned Copper
Ground Wire	1	16 AWG	26x30	TC - Tinned Copper

## Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPO - Crosslink Polyolefin	0.046 in (1.2 mm)	0.153 in (3.89 mm)	ICEA Chart M4
Ground Wire	PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.153 in (3.89 mm)	Green/Yellow Stripe

### **Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Таре	Tri-Laminate (Alum+Poly+Alum)	100%	16 AWG (26x30) TC
Braid	Tinned Copper (TC)	85%	

## Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.534 in (13.6 mm)	Yes
verall Cable Diameter (	Nominal):	0.534 in (13.6 mm)	

# **Electrical Characteristics**

## Electricals

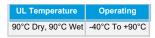
Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	3.91 Ohm/1000ft	45 pF/ft (150 pF/m)	81 pF/ft (270 pF/m)	41 Ohm	55%	18 Amps per Conductor at 30°C
	4.45 Ohm/1000ft (14.6 Ohm/km)					14.4 Amps per Conductor at 30°C (per NEC)

### Voltage

UL Voltage Rating	Voltage Rating
600 / 1000 V (TC-ER, WTTC, UL Flexible Motor Supply Cable), 600 V (C(UL) CIC TC)	1000 V (AWM I/II A/B)

# **Mechanical Characteristics**

# Temperature



#### **Bend Radius**

Stationary Min.	Installation Min.
6.4 in (160 mm)	6.4 in (160 mm)

Max. Pull Tension:	256 lbs (116 kg)
Bulk Cable Weight:	171 lbs/1000ft

### **Standards and Compliance**

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 UL Loading, FT4, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC-ER, WTTC, UL Flexible Motor Supply Cable
AWM Compliance:	AWM I/II A/B
CEC / C(UL) Compliance:	CIC, TC
ICEA Compliance:	S-95-658
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	P-07-KA070003-MSHA

## History

Update and Revision:	Revision Number: 0.530 Revision Date: 07-15-2022

#### **Part Numbers**

#### Variants

Item #	Color	Putup Type	Length	UPC
29500 010100	Black	Reel	100 ft	612825136491
29500 010250	Black	Reel	250 ft	612825136521
29500 010500	Black	Reel	500 ft	612825136538
29500 0101000	Black	Reel	1,000 ft	612825136507
29500 0106000	Black	Reel	6,000 ft	612825136545

## © 2022 Belden, Inc

#### All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.