



Product: [29500F](#)

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

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Product Description

Belden 300% Ground Extra Flexible VFD, 3 Conductor 16AWG (65x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/16AWG Tinned Copper Drain, Black TPE Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable 1000V WTTC 600V CIC TC SUN RES OIL RES II DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems, Exposure to high flex, motion, and abrasion, Hard to reach installation areas
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	16 AWG	65x34	TC - Tinned Copper
Ground Wire	1	16 AWG	65x34	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPO - Crosslink Polyolefin	0.046 in (1.2 mm)	0.151 in (3.84 mm)	ICEA Chart M4
Ground Wire	PVC - Polyvinyl Chloride	0.046 in (1.2 mm)	0.151 in (3.84 mm)	Green/Yellow Stripe

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Tri-Laminate (Alum+Poly+Alum)	100%	16 AWG (65x34) TC
Braid	Tinned Copper (TC)	85%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
TPE - Thermoplastic Elastomer	0.063 in (1.6 mm)	0.528 in (13.4 mm)	Yes

Overall Cable Diameter (Nominal):	0.528 in (13.4 mm)
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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)	3.941 Ohm/1000ft	54 pF/ft (180 pF/m)	97 pF/ft (320 pF/m)	44 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
1000 V (TC-ER, WTTC, UL Flexible Motor Supply Cable), 600 V (C(UL) CIC TC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	-40°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
6.3 in (160 mm)	6.3 in (160 mm)

Max. Pull Tension:	243 lbs (110 kg)
Bulk Cable Weight:	171 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 UL Loading, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC-ER, WTTC, UL Flexible Motor Supply Cable
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)

History

Update and Revision:	Revision Number: 0.359 Revision Date: 12-22-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
29500F 0101000	Black	Reel	1,000 ft	612825367239
29500F 0106000	Black	Reel	6,000 ft	612825367246

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