



Product: [29507F](#)

VFD 100% Gnd, 3C #2 Str TC XLPE Ins + #2 Symm. Seg. Gnd (3 of #6) Str TC, OS+TC Brd, Blk TPE Jkt, 600/1000V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

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Product Description

Belden 100% Ground Extra Flexible VFD, 3 Conductor 2AWG (7x95x30) Tinned Copper XLPE Insulation M4 Color Code + 2AWG Symmetrical Segmented Ground (3 of 6AWG) Tinned Copper Stranded, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, Black TPE Outer Jacket, 600/1000V 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	Number of Element	Size	Stranding	Material	Notes
Conductor(s)	3	2 AWG	7x95x30	TC - Tinned Copper	
Ground	3	2 AWG	7x37x30	TC - Tinned Copper	Segmented Grounds

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.062 in (1.6 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.062 in (1.6 mm)	Green/Yellow Stripe

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
TPE - Thermoplastic Elastomer	0.095 in (2.4 mm)	1.207 in (30.66 mm)	Yes

Overall Cable Diameter (Nominal):	1.207 in (30.66 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 Impedance	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.153 Ohm/1000ft (0.502 Ohm/km)	48 pF/ft (160 pF/m)	86 pF/ft (280 pF/m)	37 Ohm	55%	130 Amps per Conductor at 30°C (per NEC)

Voltage

UL Voltage Rating
1000 V (TC, 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.	Flexing Min.
6.0 in (150 mm)	14.5 in (368 mm)	14.5 in (368 mm)

Max. Pull Tension:	3723 lbs
Bulk Cable Weight:	1273 lbs/1000ft (1894 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading, FT4, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, TC-ER, WTTTC, XHHW-2, 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: 0.358 Revision Date: 12-15-2021
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Variants

Item #	Color	Putup Type	UPC
29507F 0102000	Black	Reel	612825373377

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