



Product: <u>29507</u> ☑

VFD 300% Gnd, 3C+G #2 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/4-#8 TC Drains, Blk PVC Jkt, 600/1000V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

Request Sample

Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 2AWG (7x19x23) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-8AWG Tinned Copper Ground/Drains, Black PVC Outer Jacket, 600/1000V 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material	Notes
Conductor(s)	3	2 AWG	7x19x23	TC - Tinned Copper	
Insulated Ground	1	2 AWG	7x19x23	TC - Tinned Copper	Insulated Ground Wire
Segmented Ground Wire	4	8 AWG	7x19x29	TC - Tinned Copper	Segmented Ground Wire (4 Totaling 2 AWG)

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.062 in (1.6 mm)	0.454 in (11.5 mm)	ICEA Chart M4
Ground Wire	PVC - Polyvinyl Chloride	0.062 in (1.6 mm)	0.454 in (11.5 mm)	Green/Yellow Stripe
Uninsulated Ground Wire				

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	Tri-Laminate (Alum+Poly+Alum)	100%	8 AWG (7x19x28) TC
Braid	Tinned Copper (TC)	87%	

Outer Jacket

PVC - Polyvinyl Chloride 0.095 in (2.4 mm) 1.324 in (33.63 mm) Yes	Material	Nom. Thickness	Nom. Diameter	Ripcord
	PVC - Polyvinyl Chloride	0.095 in (2.4 mm)	1.324 in (33.63 mm)	Yes

Overall Cable Diameter (Nominal): 1.324 in (33.63 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Inductance Cond-Grnd	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.152 Ohm/1000ft	35 pF/ft (110 pF/m)	66 pF/ft (220 pF/m)	46 Ohm	0.098 μH/ft	55%	130 Amps per Conductor at 30°C
Insulated Ground	0.147 Ohm/1000ft (0.482 Ohm/km)						
Uninsulated Ground Wire							

Voltage

UL Voltage Rating	Voltage Rating
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Mechanical Characteristics

Temperature

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

Bend Radius

15.9 in (404 mm) 15.9 in (404 mm)	
Max. Pull Tension:	3987 lbs (1808 kg)
Bulk Cable Weight:	1546 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, 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: 0.670 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
29507 010250	Black	Reel	250 ft	612825137368	CZ
29507 010500	Black	Reel	500 ft	612825137375	CZ
29507 0101000	Black	Reel	1,000 ft	612825137320	CZ
29507 0102000	Black	Reel	2,000 ft	612825137351	CZ

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