



Product: [29507](#)

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

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems; Class 1 Division 2 Hazardous Locations: Recommended Cable Gland Belden BTC150A1501RA
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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
Tape	Tri-Laminate (Alum+Poly+Alum)	100%	8 AWG (7x19x28) TC
Braid	Tinned Copper (TC)	87%	

Outer Jacket

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)
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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. 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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1000 V (TC-ER, WTTC, UL44, UL Flexible Motor Supply Cable), 600 V (C(UL) CIC TC)	1000 V (AWM I/II A/B)
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Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
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: 0.669 Revision Date: 06-21-2024
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Part Numbers

Variants

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

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