



Product: <u>29503</u> ☑

VFD 300% Gnd, 3C+G #10 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/#10 TC Drain, 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 10AWG (105x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/10AWG Tinned Copper Ground/Drain, 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; Recommended Cable Gland Belden BTC100A0791RA

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	10 AWG	105x30	TC - Tinned Copper
Insulated Ground	1	10 AWG	105x30	TC - Tinned Copper
Uninsulated Ground Wire	1	10 AWG	105x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.046 in (1.2 mm)	0.212 in (5.38 mm)	ICEA Chart M4
Insulated Ground	PVC - Polyvinyl Chloride	0.046 in (1.2 mm)	0.212 in (5.38 mm)	Green/Yellow Stripe
Uninsulated Ground Wire				

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	Tri-Laminate (Alum+Poly+Alum)	100%	10 AWG (105x30) TC
Braid	Tinned Copper (TC)	85%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.073 in (1.9 mm)	0.690 in (17.5 mm)	Yes
Overall Cable Diameter (0.690 in (17.5 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)	0.969 Ohm/1000ft	23 pF/ft (75 pF/m)	42 pF/ft (140 pF/m)	80 Ohm	0.173 µH/ft	55%	40 Amps per Conductor at 30°C (per NEC)
Insulated Ground	1.080 Ohm/1000ft (3.543 Ohm/km)						
Uninsulated Ground Wire							

Voltage

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min. Installation Min. 8.3 in (210 mm) 8.3 in (210 mm)

8.5 III (210 IIIII) 8.5 III (210 IIIII)	
Max. Pull Tension:	762 lbs (346 kg)
Bulk Cable Weight:	353 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: 0.649 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
29503 010100	Black	Reel	100 ft	612825136880	
29503 010250	Black	Reel	250 ft	612825136910	СZ
29503 010500	Black	Reel	500 ft	612825136941	сz
29503 0101000	Black	Reel	1,000 ft	612825136897	сz
29503 0105000	Black	Reel	5,000 ft	612825136958	сz

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