



Product: 29503 ☑

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 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

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	3	10 AWG	105x30	TC - Tinned Copper
Ground	1	10 AWG	105x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.046 in (1.2 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.046 in (1.2 mm)	Green/Yellow Stripe

Outer Shield

Shield Type	Material	Coverage
Таре	Tri-Laminate (Alum+Poly+Alum)	100%
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 (I	Nominal):	0.690 in (17.5 mm)	

Electrical Characteristics

Electricals

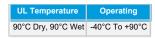
Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.969 Ohm/1000ft (3.18 Ohm/km)	23 pF/ft (75 pF/m)	42 pF/ft (140 pF/m)	80 Ohm	55%	40 Amps per Conductor at 30°C (per NEC)

Voltage

UL Voltage Rating
1000 V (TC, WTTC, UL Flexible Motor Supply Cable, CSA AWM I/II A/B), 600 V (C(UL) CIC TC)

Mechanical Characteristics

Temperature



Bend Radius

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

Max. Pull Tension:	666 lbs	
Bulk Cable Weight:	357 lbs/1000ft (531 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, WTTC, RHW-2, UL Flexible Motor Supply Cable	
AWM Compliance:	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: 0.446 Revision Date: 12-15-2021

Variants

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

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