



Product: <u>29503F</u> ☑

VFD 300% Gnd, 3C+G #10 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/#10 TC Drain, Blk TPE Jkt, 600/1000V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

😭 Request Sample

Product Description

Belden 300% Ground Extra Flexible VFD, 3 Conductor 10AWG (7x37x34) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/10AWG Tinned Copper Drain, 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

Construction Details

Conductor

Element	Element Number of Element		Stranding	Material
Conductor(s)	3	10 AWG	7x37x34	TC - Tinned Copper
Ground	1	10 AWG	7x37x34	TC - Tinned Copper

Insulation

Element Material		Nom. Thickness	Color Code
Conductor(s)	onductor(s) XLPE - Cross-Linked Polyethylene (Thermoset)		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	
TPE - Thermoplastic Elastomer	0.073 in (1.9 mm)		0.716 in (18.2 mm)	Yes	
Overall Cable Diameter (Nomina	0.716 ir	ı (18.2 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)	1.003 Ohm/1000ft (3.291 Ohm/km)	45 pF/ft (150 pF/m)	81 pF/ft (270 pF/m)	41 Ohm	55%	40 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

Bend Radius

Stationary Min.	Installation Min.	Flexing Min.
3.6 in (91 mm)	5.4 in (140 mm)	5.4 in (140 mm)
Max. Pull Tensio	n:	666 lbs (3
Bulk Cable Weig	ht:	357 lbs/1

Standards and Compliance

Environmental Suitability:	nvironmental Suitability: Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial	
Sustainability:	CA Prop 65	
Flammability / Reaction to Fire:	UL1685 UL Loading, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)	
NEC / UL Compliance:	Article 336, TC-ER, XHHW-2, RHW-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: 0.187 Revision Date: 04-14-2023
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Part Numbers

Variants

ltem #	Color	Putup Type	Length	UPC
29503F 0101000	Black	Reel	1,000 ft	612825367178
29503F 0105000	Black	Reel	5,000 ft	612825367185

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