



**Product: 29502** ☑

VFD 300% Gnd, 3C+G #12 Str TC,XLPE Ins+PVC Gnd, OS+TC Brd w/#12 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 12AWG (65x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/12AWG 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	12 AWG	65x30	TC - Tinned Copper
Ground	1	12 AWG	65x30	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 Chlo	de 0.073 in (1.9 mm)	0.630 in (16.0 mm)	Yes
erall Cable Diame	er (Nominal):	0.630 in (16.0 mm)	

#### **Electrical Characteristics**

### Electricals

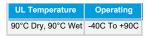
Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	1.566 Ohm/1000ft (5.138 Ohm/km)	26 pF/ft (85 pF/m)	47 pF/ft (150 pF/m)	71 Ohm	55%	30 Amps per Conductor at 30°C (per 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.
7.6 in (190 mm)	7.6 in (190 mm)

Max. Pull Tension:	458 lbs	
Bulk Cable Weight:	277 lbs/1000ft (412 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: 0.451 Revision Date: 12-15-2021

# Variants

Item #	Color	Putup Type	Length	UPC
29502 010100	Black	Reel	100 ft	612825136743
29502 010250	Black	Reel	250 ft	612825136781
29502 010500	Black	Reel	500 ft	612825136804
29502 0101000	Black	Reel	1,000 ft	612825136750
29502 0105000	Black	Reel	5,000 ft	612825136811

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