Product: 29504T

VFD 300% Gnd, 3C+G #8 Str TC, XLPE Ins+PVC Grd, OS+TC Brd w/4-#14 TC Drains, Blk LSZH Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 8AWG (7x19x29) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-14AWG Tinned Copper Drains, Black LSZH Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems; Human safety applications with flame or toxicity concerns (low smoke, zero halogen)

Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material
Conductor(s)	3	8	7x19x29	TC - Tinned Copper
Ground	1	8	7x19x29	TC - Tinned Copper

Insulation

Element	Material	Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.062 in	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.062 in	Green/Yellow Stripe

Outer Shield Material

Shield Type	Material	Coverage
Tape + Braid	Tri-Laminate (Alum+Poly+Alum) + Tinned Copper (TC)	100% + 85%

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.095 in	0.901 in	Yes

Cable Diameter (Nominal):	0.901 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.079 Ohm/1000ft	46 pF/ft	83 pF/ft	37 Ohm	0.55%	55 Amps per Conductor at 30ºC (per NEC)

Voltage

UL Voltage Rating
1000 V (TC, WTTC, UL Flexible Motor Supply Cable)

Mechanical Characteristics

Temperature

UL Rating	Operating
90°C Dry, 90°C Wet	-25°C To +90°C

Bend Radius

Installation Min.
10.8 in

Max. Pull Tension:	971 lbs
Bulk Cable Weight:	580 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 FT4 Loading
NEC / UL Compliance:	Article 336, TC-ER, WTTC, UL Flexible Motor Supply Cable
ICEA Compliance:	S-95-658
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.146 Revision Date: 09-30-2020