

Part Number: 29532



1000V UL Flex Motor VFD, (3) 4/0 AWG (7x19x18) TC+Grd, XLPE/PVC, Dual Cu Tape Shld, TC-ER

Product Description

Three 4/0 AWG stranded (7x19x18) tinned copper circuit conductors plus three symmetrical ground wires, cross-linked polyethylene insulation, two helical copper tape shields (100% Coverage), PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	AC Motor drives, VFD, Variable Frequency drives
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
	4/0	7x19x18	TC - Tinned Copper	3
Ground Wire	2	7x19x23	BC - Bare Copper	1

Conductor Count:	3
AWG Size:	4/0

Insulation

Material	Nominal Wall Thickness
XLP - Cross Linked Polyolefin	0.057 in

Color Chart

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3

Outer Shield Material

Type	Description	Layer	Material	Coverage [%]
Tape	.002"	1	Spiral Copper	100 %
Tape	.002"	2	Spiral Copper	100 %

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.652 in	0.083 in

Construction and Dimensions

Stranding

Lay Length
Y mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.05 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
50 pF/ft	90 pF/ft

Inductance

Nominal Inductance
0.136 µH/ft

Current

Max. Recommended Current [A]
260 Amps per conductor @ 30°C

Voltage

Description	UL Voltage Rating	Voltage Rating [V]
CSA AWM I/II A/B	1000 V RMS	1000 V RMS
	600 V RMS	

Temperature Range

UL Temp Rating:	90°C
Operating Temp Range:	-40°C To +90°C
Wet Temp Range:	-40°C To +90 °C
Dry Temp Range:	-40°C To +90 °C

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	3264 lbs/1000ft
Max Recommended Pulling Tension:	5622 lbs
Min Bend Radius/Minor Axis:	16.5 in

Standards

NEC Articles:	336 - ER
NEC/(UL) Specification:	TC-ER, WTTC, XHHW-2
CEC/C(UL) Specification:	TC
CSA AWM Specification:	AWM I/II A/B
PMSHA Specification:	P-07-KA070003
Other Specification:	1000V UL Flexible Motor Supply Cable

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-11-09
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	RW90, FT4
UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4

IEEE Flammability:	1202, 383
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Part Number

Plenum (Y/N):	No
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Variants

Item #	Color	Footnote
29532 0101500	BLACK	C Z
29532 010250	BLACK	
29532 010500	BLACK	

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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