



Part Number: 29529

1000V UL Flex Motor VFD, (3) 1/0 AWG (7x19x21)
TC+Grd, XLPE/PVC, Foil Shld, TC-ER

Product Description

Three 1/0 AWG stranded (7x19x21) tinned copper circuit conductors plus three symmetrical ground wires, cross-linked polyethylene insulation, two spiral copper tape shields (100% Coverage), PVC jacket.

Product Specifications

Technical Specifications

Suitable Applications:	AC Motor drives, VFD, Variable Frequency drives
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Construction and Dimensions

Conductor:

Element	AWG	Stranding	Material	No. of Conductors
	36526	7x19x21	TC - Tinned Copper	3
Ground Wire	4	7x19x25	BC - Bare Copper	

Total Number of Conductors:	3
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Insulation:

Material	Nominal Wall Thickness
XLP - Cross Linked Polyolefin	0.055 in

Color Chart 1:

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

Stranding:

Lay Length
Y mm

Outershield 1:

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

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.29 in	0.083 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR
0.1 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
45 pF/ft	81 pF/ft

Current:

Max. Recommended Current [A]
170 Amps per conductor @ 30°C (per NEC)

Inductance:

Nominal Inductance
0.143 µH/ft

Voltage:

Description	UL Voltage Rating	Voltage Rating [V]
CSA AWM I/II A/B	1000 V RMS (Flexible Motor Supply Cable)	1000 V RMS
	600 V RMS (NEC Type TC)	

Use

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

Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	2010 lbs

Safety

CSA Flammability:	FT4
IEEE Flammability:	1202
UL Flammability:	UL1685 UL Loading

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	12.9 in
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Part Number

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
CSA AWM Specification:	CSA Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC Articles:	NEC Articles
NEC/(UL) Specification:	NEC/(UL) Specification
Other Specification:	Other Specification
PMSHA Specification:	PMSHA Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Product Variants

Part Number	Color	Put-Up Type	Length
29529 0101000	BLACK	Reel	1000 ft
29529 0102000	BLACK	Reel	2000 ft
29529 0102500	BLACK	Reel	2500 ft
29529 010250	BLACK	Reel	250 ft
29529 010500	BLACK	Reel	500 ft

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