

Part Number: 29528

1000V UL Flex Motor VFD, (3) 1 AWG (7x19x22) TC+Grd, XLPE/PVC, Foil Shld, TC-ER



Product Description

Three 1 AWG stranded (7x19x22) 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
	1	7x19x22	TC - Tinned Copper	3
Ground Wire	6	7x19x27	BC - Bare Copper	

Total Number of Conductors:	3
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Insulation:

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.057 in

Stranding:

Lay Length
Y mm

Outersheild 1:

Type	Layer	Material	Coverage [%]
Tape	1	Spiral Copper	100 %
Tape	2	Spiral Copper	100 %

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.2 in	0.083 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR
0.13 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
44 pF/ft	79 pF/ft

Current:

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

Inductance:

Nominal Inductance
0.146 μ H/ft

Voltage:

UL Voltage Rating
1000 V RMS (Flexible Motor Supply Cable)
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:	2650 lbs

Safety

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

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	12 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/(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
29528 0101000	BLACK	Reel	1000 ft
29528 010250	BLACK	Reel	250 ft
29528 0103000	BLACK	Reel	3000 ft
29528 010500	BLACK	Reel	500 ft

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