



Part Number: 29538

2000V UL Flex Motor VFD, (3) 10 AWG (105x30) TC+Grd, XLPE/PVC, Foil+TC Braid Shld, TC-ER

Product Description

Three 10 AWG stranded (105x30) tinned copper circuit conductors plus ground wire, cross-linked polyethylene insulation, overall Duofoil® tape (100% coverage) plus a tinned copper braid shield (85% 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
	10	105x30	TC - Tinned Copper	3
Ground Wire	10	105x30	TC - Tinned Copper	

Total Number of Conductors:	3
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Insulation:

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.06 in
XLPE - Cross Linked Polyethylene	

Stranding:

Lay Length
Y mm

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape	Duofoil®	100 %	TC - Tinned Copper	10	105x30 mm
Braid	2	TC - Tinned Copper		85 %			

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.788 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR
0.988 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
34 pF/ft	61 pF/ft
Min Insulation Resistance:	300 Megaohms/1000 ft. MOhm*1000ft

Impedance:

Nominal Characteristic Impedance
71 Ohm

Current:

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

Inductance:

Nominal Inductance
0.184 µH/ft

Voltage:

UL Voltage Rating
2000 V RMS (Flexible Motor Supply Cable)
2000 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:	592 lbs

Safety

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

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	7.9 in
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Part Number

Plenum (Y/N):	No
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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
29538 0101000	BLACK	Reel	1000 ft
29538 0105000	BLACK	Reel	5000 ft

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