

Part Number: 29531

1000V UL Flex Motor VFD, (3) 3/0 AWG (19x7x19)
TC+Grd, XLPE/PVC, Foil Shld, TC-ER



Product Description

Three 3/0 AWG stranded (19x7x19) 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
-------------------------------	---

Construction and Dimensions

Conductor:

Element	AWG	Stranding	Material	No. of Conductors
	36586	19x7x19	TC - Tinned Copper	3
Ground Wire	4	7x19x25	BC - Bare Copper	

Total Number of Conductors:	3
------------------------------------	---

Insulation:

Material	Nominal Wall Thickness
XLP - Cross Linked Polyolefin	0.057 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

Outersheild 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	1.52 in	0.083 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR
0.063 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
48 pF/ft	86 pF/ft

Current:

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

Inductance:

Nominal Inductance
0.138 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:	5025 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:	15.2 in
-----------------------------	---------

Part Number

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
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
29531 0101000	BLACK	Reel	1000 ft
29531 0102000	BLACK	Reel	2000 ft
29531 010250	BLACK	Reel	250 ft
29531 010500	BLACK	Reel	500 ft

© 2016 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an 'AS IS' basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.