

Part Number: 29544

2000V 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 a symmetrical ground wire, 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
	36526	7x19x21	TC - Tinned Copper	3
Ground Wire	4	7x19x25	BC - Bare Copper	

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

Insulation:

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.09 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
PVC - Polyvinyl Chloride	1.45 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
47 pF/ft	85 pF/ft

Impedance:

Nominal Characteristic Impedance
50 Ohm

Current:

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

Inductance:

Nominal Inductance
0.143 μ H/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:	3537 lbs

Safety

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

Temperature Range

UL Temp Rating:	90°C Wet/Dry
-----------------	--------------

Mechanical Characteristics

Min Bend Radius/Minor Axis:	14.5 in
-----------------------------	---------

Part Number

Plenum (Y/N):	No
---------------	----

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
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
29544 0101000	BLACK	Reel	1000 ft
29544 0102000	BLACK	Reel	2000 ft

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.