

29535 Multi-Conductor - 2000V UL, 1000V C(UL) VFD Cable



For more Information
please call

1-800-Belden1



General Description:

500 MCM, 3 stranded bare copper circuit conductors plus (3) symmetrical bare copper ground wires, XLPE insulation, two spiral copper tape shields (100% coverage) ~ sun- and oil-resistant PVC jacket.

Usage (Overall)

Suitable Applications: AC Motor Drives, VFD, Variable Frequency Drive

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	500 MCM	37x.1162	BC - Bare Copper

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 6

Ground Wire Stranding: 7x14

Ground Wire Conductor Material: BC - Bare Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
XLPE - Cross Linked Polyethylene	0.105

Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Spiral Copper	100
2	Tape	Spiral Copper	100

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 2.410 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +90°C

Bulk Cable Weight: 6749 lbs/1000 ft.

Max. Recommended Pulling Tension: 12000 lbs.

Min. Bend Radius/Minor Axis: 43.400 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	TC-ER
NEC Articles:	336 - ER
CSA Specification:	C22.2 #230 Type TC
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes

29535 Multi-Conductor - 2000V UL, 1000V C(UL) VFD Cable

EU RoHS Compliance Date (mm/dd/yyyy):	06/11/2012
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT4
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)

Suitability

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

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
44.000

Nom. Inductance:

Inductance (µH/ft)
.136

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
54.000

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
97.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
0.022

Max. Operating Voltage - UL:

Voltage
2000 V RMS (NEC Type TC)

Max. Recommended Current:

Current
430 Amps per conductor @ 30°C (per NEC)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29535 0101000	1,000 FT	7,549.000 LB	BLACK		3C 500 MCM Belden VFD 2000V
29535 0101300	1,300 FT	9,573.200 LB	BLACK		3C 500 MCM Belden VFD 2000V

Revision Number: 1 Revision Date: 08-31-2017

© 2017 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 2014/35/EU).