

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 (mm)
XLPE - Cross Linked Polyethylene	2.667

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: 61.214 mm

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 10043.862 Kg/Km

Max. Recommended Pulling Tension: 53378.400 N

Min. Bend Radius/Minor Axis: 1102.360 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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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
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
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

44.000

Nom. Inductance:

Inductance (µH/m)

0.446216

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

177.174

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

318.257

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

0.072

Max. Operating Voltage - UL:

Voltage

2000 V RMS (NEC Type TC)

Max. Recommended Current:

Current

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

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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

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