

## 29534 Multi-Conductor - 2000V UL, 1000V C(UL) VFD Cable



For more Information  
please call

1-800-Belden1



### General Description:

350 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	350 MCM	37x.0973	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:** 2.130 in.

### Mechanical Characteristics (Overall)

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

**Bulk Cable Weight:** 5029 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 8400 lbs.

**Min. Bend Radius/Minor Axis:** 38.400 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

## 29534 Multi-Conductor - 2000V UL, 1000V C(UL) VFD Cable

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/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)

0.032

### Max. Operating Voltage - UL:

Voltage

2000 V RMS (NEC Type TC)

### Max. Recommended Current:

Current

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

## 29534 Multi-Conductor - 2000V UL, 1000V C(UL) VFD Cable

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29534 0101000	1,000 FT	5,367.000 FT	BLACK		3C 350 MCM VFD CABLE 2000V
29534 0101500	1,500 FT	7,804.500 LB	BLACK		3C 350 MCM Belden VFD 2000V
29534 0101750	1,750 FT	8,988.000 LB	BLACK		3C 350 MCM Belden VFD 2000V

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