

## 29513 Composite - 1000V UL Flexible Motor Supply Cable



For more Information  
please call

1-800-Belden1



### Description:

1 pr.(Signal)-16 AWG stranded (26x30) TC cond., XLPE insul., Beldfoil® shield (100% c; 3 cond.(VFD) plus 1 ground wire-10 AWG stranded (105x30) TC cond., XLPE insul., Duofoil® and TC braid Shield (100% acdrain, PVC jacket.

### Usage (Overall)

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

### Twisted Pair

#### Physical Characteristics

##### Conductor

###### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	16	26x30	TC - Tinned Copper

##### Insulation

###### Insulation Material:

Insulation Material	Dia. (in.)
XLPE - Cross Linked Polyethylene	0.030

###### Twisted Pair Color Code Chart:

Number	Color
1	Black and White

##### Inner Shield

###### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

###### Inner Shield Drain Wire AWG:

AWG	Stranding	Conductor Material
18	19x30	TC - Tinned Copper

#### Electrical Characteristics

##### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
34.000

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.000

##### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.990

### Multi Conductor

#### Physical Characteristics

##### Conductor

###### AWG:

# Conductors	AWG	Stranding	Conductor Material
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1	10	105x30	TC - Tinned Copper
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### Ground Wire

Ground Wire (Y/N): Yes

#### Ground Wire Material:

AWG	Stranding	Conductor Material	Insulation Material
10	105x30	TC - Tinned Copper	PVC - Polyvinyl Chloride

### Insulation

#### Insulation Material:

Insulation Material	Dia. (in.)
XLPE - Cross Linked Polyethylene	0.045

#### Insulation Color Code Chart:

Number	Color
1	Black #1
2	Black #2
3	Black #3
4	Green/Yellow

### Outer Shield

#### Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
2		Braid	TC - Tinned Copper	85.000

#### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
10	105x30	TC - Tinned Copper

### Electrical Characteristics

#### Nom. Inductance:

Inductance (µH/ft)
0.184

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
53.000

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
29.000

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
0.988

### Physical Characteristics (Overall)

#### Conductor

#### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.105

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Nominal Diameter: 0.985 in.

### Mechanical Characteristics (Overall)

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

Max. Recommended Pulling Tension: 718 lbs.

Min. Bend Radius (Install)/Minor Axis: 9.900 in.

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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	RHW-2 Singles, TC-ER, XHHW-2
<b>NEC Articles:</b>	336 - ER
<b>CSA Specification:</b>	1000 V AWM I/II A/B
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	09/21/2006
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>Other Specification:</b>	1000V UL Flexible Motor Supply Cable

#### Flame Test

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

#### Suitability

<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	Yes
<b>Suitability - Burial:</b>	Yes
<b>Sunlight Resistance:</b>	Yes

#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
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### Electrical Characteristics (Overall)

#### Max. Operating Voltage - UL:

<b>Voltage</b>
1000 V RMS (Flexible Motor Supply Cable)

#### Max. Operating Voltage - Other:

<b>Voltage</b>
1000 V RMS (CSA AWM I/II A/B)

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29513 010100	100 FT	89.300 LB	BLACK	C	COMPOSITE CABLE SH PVC
29513 0101000	1,000 FT	563.000 LB	BLACK	C	COMPOSITE CABLE SH PVC
29513 0103000	3,000 FT	1,671.000 LB	BLACK	C	COMPOSITE CABLE SH PVC
29513 010500	500 FT	286.500 LB	BLACK	C	COMPOSITE CABLE SH PVC

#### Notes:

C = CRATE REEL PUT-UP.

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