**ENGLISH MEASUREMENT VERSION** 



## 29511 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), drain; 3 cond.(VFD) plus 1 ground wire-14 AWG stranded (41x30) TC cond., XLPE insul., Duofoil® and TC braid Shield (100% a85% c), drain, 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	Wall Thickness (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:

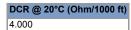
AWG	Stranding	Conductor Material
18	19x30	TC - Tinnec Copper

## **Electrical Characteristics**

Nom. Capacitance Conductor to Conductor:



Nom. Conductor DC Resistance:



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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3	14	41x30	TC - Tinned Copper
١٥	1-7	71730	10 - Tillied Copper

## **Ground Wire**

Ground Wire (Y/N): Yes

## **Ground Wire Material:**

AWG	Stranding	<b>Conductor Material</b>	Insulation Material
14	41x30	TC - Tinned Copper	PVC - Polyvinyl Chloride

#### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (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

# **Individual Shield**

#### **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	<b>Drain Wire Conductor Material</b>
14	41x30	TC - Tinned Copper

# **Electrical Characteristics**

Nom. Inductance:

Inductance (µH/ft) 0.213

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft) 42.000

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
23.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 2.520

# **Physical Characteristics (Overall)**

#### Conductor

## **Outer Jacket**

**Outer Jacket Material:** 

Outer Jacket Material Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride 0.075

Outer Jacket Ripcord: Yes

**Overall Cable** 

Overall Nominal Diameter: 0.820 in.

## **Mechanical Characteristics (Overall)**

Min. Bend Radius (Install)/Minor Axis:

Max. Recommended Pulling Tension: 368 lbs.



8.200 in.





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Applicable Specifications and Agency Compliance (Overall)					
Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	RHW-2 Singles, TC-ER, XHHW-2				
NEC Articles:	335 - ER				
CSA Specification:	1000 V AWM I/II A/B				
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):	09/21/2006				
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				
PMSHA Specification:	P-07-KA070003				
Other Specification:	1000V UL Flexible Motor Supply Cable				
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				
Plenum/Non-Plenum	lenum/Non-Plenum				
Plenum (Y/N):	No				

# **Electrical Characteristics (Overall)**

# Max. Operating Voltage - UL:

Voltage

1000 V RMS (Flexible Motor Supply Cable)

## Max. Operating Voltage - Other:

Voltage

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
29511 010100	100 FT	67.500 LB	BLACK	С	COMPOSITE CABLE SH PVC
29511 0101000	1,000 FT	340.000 LB	BLACK	С	COMPOSITE CABLE SH PVC
29511 010500	500 FT	177.500 LB	BLACK	С	COMPOSITE CABLE SH PVC
29511 0105000	5,000 FT	1,565.000 LB	BLACK	С	COMPOSITE CABLE SH PVC

## Notes:

C = CRATE REEL PUT-UP.



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