

29510 Composite - 1000V UL Flexible Motor Supply Composite Cable



For more Information
please call

1-800-Belden1



General Description:

1 pr.(Signal)-16 AWG stranded (26x30) TC cond., XLPE insul., Beldfoil® shield (100% c.), drain; 3 cond.(VFD) plus 1 ground wire-16 AWG stranded (26x30) TC cond., XLPE insul., Duofoil® and TC braid Shield (100% a 85% 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 (mm)
XLPE - Cross Linked Polyethylene	0.762

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/m)
111.554

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
13.124

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)
16.372

Multi Conductor

Physical Characteristics

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	16	26x30	TC - Tinned Copper

Ground Wire

Ground Wire (Y/N): Yes

Ground Wire Material:

AWG	Stranding	Conductor Material	Insulation Material
16	26x30	TC - Tinned Copper	PVC - Polyvinyl Chloride

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
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XLPE - Cross Linked Polyethylene	1.143
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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
16	26x30	TC - Tinned Copper

Electrical Characteristics

Nom. Inductance:

Inductance (µH/m)
0.755

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
124.678

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
68.901

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
13.124

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.905

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 19.050 mm

Mechanical Characteristics (Overall)

Max. Recommended Pulling Tension: 1209.910 N

Min. Bend Radius/Minor Axis: 190.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	TC-ER
NEC Articles:	336 - ER
CEC/C(UL) Specification:	600V Type CIC TC
CSA Specification:	1000 V AWM I/II A/B
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):	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

METRIC MEASUREMENT VERSION

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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

Plenum (Y/N):	No
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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)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29510 010100	100 FT	35.900 LB	BLACK	C	COMPOSITE CABLE SH PVC
29510 0101000	1,000 FT	324.000 LB	BLACK	C	COMPOSITE CABLE SH PVC
29510 010500	500 FT	143.000 LB	BLACK	C	COMPOSITE CABLE SH PVC
29510 0105000	5,000 FT	1,485.000 LB	BLACK	C	COMPOSITE CABLE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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