

29512 Composite - 1000V UL Flexible Motor Supply 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-12 AWG stranded (65x30) 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 (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

Individual Shield**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:

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# Conductors	AWG	Stranding	Conductor Material
3	12	65x30	TC - Tinned Copper

Ground Wire

Ground Wire (Y/N): Yes

Ground Wire Material:

AWG	Stranding	Conductor Material	Insulation Material
12	65x30	TC - Tinned Copper	PVC - Polyvinyl Chloride

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
XLPE - Cross Linked Polyethylene	1.143

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	Drain Wire Conductor Material
12	65x30	TC - Tinned Copper

Electrical Characteristics

Nom. Inductance:

Inductance (µH/m)
0.646

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
154.207

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
85.306

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
5.250

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	2.032

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 22.733 mm

Mechanical Characteristics (Overall)

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

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Max. Recommended Pulling Tension:	2344.201 N
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Min. Bend Radius/Minor Axis:	228.600 mm
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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	RHW-2 Singles, TC-ER
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CEC/C(UL) Specification:	600V Type CIC TC
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CSA Specification:	1000 V AWM I/II A/B
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EU Directive 2011/65/EU (ROHS II):	Yes
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EU CE Mark:	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	09/21/2006
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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PMSHA Specification:	P-07-KA070003
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Other Specification:	1000V UL Flexible Motor Supply Cable
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Flame Test

UL Flame Test:	UL1685 UL Loading
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CSA Flame Test:	FT4
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IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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Suitability - Burial:	Yes
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Sunlight Resistance:	Yes
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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
29512 010100	100 FT	77.300 LB	BLACK	C	COMPOSITE CABLE SH PVC
29512 0101000	1,000 FT	438.000 LB	BLACK	C	COMPOSITE CABLE SH PVC
29512 0104000	4,000 FT	1,680.000 LB	BLACK	C	COMPOSITE CABLE SH PVC
29512 010500	500 FT	226.500 LB	BLACK	C	COMPOSITE CABLE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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