Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



29507 Multi-Conductor - 1000V UL Flexible Motor Supply Cable



For more Information please call

1-800-Belden1



General Description:

4-cond. (3) stranded tinned copper circuit conductors plus (1)ground wire with PVC insulation, XLP insulation, overall Duofoil® (100% cov.) plus a tinned copper braid shield (85% cov.), tinned copper sectioned drain wire, Sun-&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 7x19x23 TC - Tinned Copper **Total Number of Conductors:** 3 **Ground Wire** Ground Wire (Y/N): **Ground Wire AWG:** 2 **Ground Wire Stranding:** 7x19x23 **Ground Wire Conductor Material:** TC - Tinned Copper PVC - Polyvinyl Chloride **Ground Wire Insulation Material:** Insulation Insulation Material: XLP - Cross Linked Polyolefin 0.060

Insulation Resistance: 300 Megaohms/1000 ft.

Insulation Color Code Chart:

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Green/Yellow

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type Outer Shield Material		Coverage (%)	
1	Duofoil®	Таре	Aluminum Foil-Polyester Tape	100	
2		Braid	TC - Tinned Copper	85	

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
8 (4x)	133x29	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.093

Overall Cable

Overall Nominal Diameter: 1.310 in.

Mechanical Characteristics (Overall)

Wet Temperature Range:	-40°C To +90°C
Dry Temperature Range:	-40°C To +90°C
Bulk Cable Weight:	1630 lbs/1000 ft.

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Max. Recommended Pulling Tension:	3088 lbs.			
Min. Bend Radius/Minor Axis:	10.750 in.			
pplicable Specifications and Agency Compliance (Overall)				
pplicable Standards & Environmental Programs				
NEC/(UL) Specification:	TC-ER, Unlisted Singles, WTTC			
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):	10/13/2005			
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			
ame Test				
UL Flame Test:	UL1685 UL Loading			
CSA Flame Test:	FT4			
IEEE Flame Test:	1202			
uitability				
Suitability - Indoor:	Yes			
Suitability - Outdoor:	Yes			
Suitability - Burial:	Yes			
Sunlight Resistance:	Yes			
Oil Resistance:	Yes			
enum/Non-Plenum				
Plenum (Y/N):	No			

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 0.16

Max. Operating Voltage - UL:

1000 V RMS (Flexible Motor Supply Cable) 600 V RMS (NEC Type TC)

Max. Operating Voltage - Other:

Description 1000 V RMS CSA AWM I/II A/B

Max. Recommended Current:

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Current 130 Amps per conductor @ 30°C (per NEC)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29507 010\$3000	3,000 FT	5,163.000	BLACK		3 #2 XLPE, #2 PVC SH HMF
29507 0101000	1,000 FT	1,714.000 LB	BLACK	CZ	3 #2 XLPE, #2 PVC SH HMF
29507 0102000	2,000 FT	3,318.000 LB	BLACK	CZ	3 #2 XLPE, #2 PVC SH HMF
29507 010250	250 FT	504.500 LB	BLACK	CZ	3 #2 XLPE, #2 PVC SH HMF
29507 010500	500 FT	891.000 LB	BLACK	CZ	3 #2 XLPE, #2 PVC SH HMF

Notes: C = CRATE REEL PUT-UP

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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product.

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