



Part Number: 29533

2000V, 1000V C(UL) VFD, (3) 250 MCM, (37x.0822)
BC+Grd, XLPE/PVC, Foil Shld, TC-ER

Product Description

Three 250 MCM stranded (37x.0822) bare copper circuit conductors plus three symmetrical ground wires, cross-linked polyethylene insulation, two spiral copper tape shields (100% coverage), PVC jacket.

Product Specifications

Technical Specifications

Suitable Applications:	AC Motor drives, VFD, Variable Frequency drives
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Construction and Dimensions

Conductor:

Element	AWG	Stranding	Material	No. of Conductors
	250 MCM	37x.0822	BC - Bare Copper	3
Ground Wire	8	7x16	BC - Bare Copper	

Total Number of Conductors:	3
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Insulation:

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.105 in

Stranding:

Lay Length
Y mm

Outershield 1:

Type	Layer	Material	Coverage [%]
Tape	1	Spiral Copper	100 %
Tape	2	Spiral Copper	100 %

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	1.912 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR
0.05 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
54 pF/ft	97 pF/ft

Impedance:

Nominal Characteristic Impedance
44 Ohm

Current:

Max. Recommended Current [A]
290 Amps per conductor @ 30°C (per NEC)

Inductance:

Nominal Inductance
0.136 μ H/ft

Voltage:

UL Voltage Rating
2000 V RMS (NEC Type TC)

Use

Suitability - Oil Resistance:	Yes
Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Max Recommended Pulling Tension:	6000 lbs
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Safety

CSA Flammability:	FT4
IEEE Flammability:	1202
UL Flammability:	UL1685 UL Loading

Temperature Range

UL Temp Rating:	90°C Wet/Dry
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Mechanical Characteristics

Min Bend Radius/Minor Axis:	34.4 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CSA AWM Specification:	CSA Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC Articles:	NEC Articles
NEC/(UL) Specification:	NEC/(UL) Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Product Variants

Part Number	Color	Put-Up Type	Length
29533 0101001	BLACK	Reel	1000 ft
29533 0101002	BLACK	Reel	1000 ft
29533 0101500	BLACK	Reel	1500 m
29533 0101501	BLACK	Reel	1500 m
29533 0102300	BLACK	Reel	2300 ft
29533 010700	BLACK	Reel	700 ft

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