

Part Number: 29523C

600V VFD, (3) 10 AWG (7 x 18) BC+Grd, XLPE/PVC, Foil Shld, TC-ER



Product Description

Three 10 AWG stranded (7x18) 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
	10	7x18	BC - Bare Copper	3
Ground Wire	14	7x22	BC - Bare Copper	

Total Number of Conductors:	3
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Insulation:

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.031 in

Color Chart 1:

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3

Stranding:

Lay Length
Y mm

Outersheild 1:

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

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.506 in	0.06 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR
0.988 Ohm/1000ft

Current:

Element	Max. Recommended Current [A]
Per NEC	40 Amps per conductor @ 30°C

Voltage:

Description	UL Description	UL Voltage Rating	Voltage Rating [V]
CSA AWM I/II A/B	NEC Type TC	600 V RMS	1000 V RMS

Use

Suitability - Oil Resistance:	Yes
Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	444 lbs

Safety

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

Temperature Range

Operating Temp Range:	-40°C To +90°C
UL Temp Rating:	90°C Wet/Dry

Mechanical Characteristics

Min Bend Radius/Minor Axis:	5.1 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
PMSHA Specification:	PMSHA 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
29523C 0101000	BLACK	Reel	1000 ft
29523C 0105000	BLACK	Reel	5000 ft

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