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1-800-Belden1



General Description:

3 - 10 AWG stranded (7x18) bare copper circuit conductors plus (3) - 14 AWG stranded (7x22) symmetrical bare copper ground wires, XLPE insulation, two spiral copper tape shields (100% Coverage), sun- and 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
3	10 7x18	BC - Bare Copper

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 14

Ground Wire Stranding: 7x22

Ground Wire Conductor Material: BC - Bare Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
XLPE - Cross Linked Polyethylene	0.787

Insulation Resistance: 1850Mohms?1000ft

Insulation Color Code Chart:

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

Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Spiral Copper	100.000
2	Tape	Spiral Copper	100.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.524

Overall Cable

Overall Nominal Diameter: 12.852 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +90°C
UL Temperature Rating:	90°C Wet/Dry
Bulk Cable Weight:	354.192 Kg/Km
Max. Recommended Pulling Tension:	1975.001 N
Min. Bend Radius/Minor Axis:	129.540 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	TC-ER, XHHW-2 Singles
NEC Articles:	336 - ER
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):	08/15/2007
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
PMSHA Specification:	P-07-KA070003-MSHA

Flame Test

UL Flame Test:	UL1685 UL Loading, VW-1 (Singles)
CSA Flame Test:	FT4
IEEE Flame Test:	1202

Suitability

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

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
3.242

Max. Operating Voltage - UL:

Voltage	Description
600 V RMS	NEC Type TC

Max. Operating Voltage - Other:

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

Max. Recommended Current:

Description	Current
Per NEC	40 Amps per conductor @ 30°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29523C 0101000	1,000 FT	274.000 LB	BLACK		3#10 XLPE+3#14 GRD CU TAPE PVC
29523C 0105000	5,000 FT	1,260.000 LB	BLACK		3#10 XLPE+3#14 GRD CU TAPE PVC

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