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1-800-Belden1



General Description:

3 - 12 AWG stranded (7x20) bare copper circuit conductors plus (3) - 16 AWG stranded (7x24) symmetrical bare copper ground wires, XLP 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	12	7x20	BC - Bare Copper

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 16

Ground Wire Stranding: 7x24

Ground Wire Conductor Material: BC - Bare Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
XLP - Cross Linked Polyolefin	0.031

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 (%)	Description
1	Tape	Spiral Copper	100.000	.002"
2	Tape	Spiral Copper	100.000	.002"

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.060

Overall Cable

Overall Nominal Diameter: 0.460 in.

Mechanical Characteristics (Overall)

Wet Temperature Range: -40°C To +90°C

Dry Temperature Range: -40°C To +90°C

Bulk Cable Weight: 146 lbs/1000 ft.

Max. Recommended Pulling Tension: 258 lbs.

Min. Bend Radius/Minor Axis: 4.600 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC(UL) Specification: TC-ER, WTTC, 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/1000 ft)
1.600

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
1000 V RMS	WTTC

Max. Recommended Current:

Current
30 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29522C 0105000	5,000 FT	945.000 LB	BLACK		3#12 XLPE+3#16 GRD CU TAPE PVC

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