Product: 1229507

VFD 300% Gnd, 3C+G #2 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/4-#8 TC Drains, PVC Jkt, AIA Armor, Blk PVC Jkt, 600V MC 90C Dry/Wet

Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 2AWG (7x19x23) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-8AWG Tinned Copper Drains, PVC Inner Jacket, Aluminum Interlock Armor, Black PVC Outer Jacket, 600V MC 90C Dry/Wet SUN RES DIR BUR CT USE Oil Resistant

Technical Specifications

Product Overview

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems; Exposure to rodents, crush or impact forces

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	2 AWG	7x19x23	TC - Tinned Copper
Ground	1	2 AWG	7x19x23	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.062 in (1.6 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.062 in (1.6 mm)	Green/Yellow Stripe

Outer Shield

Shield Type	Material	Coverage
Tape	Tri-Laminate (Alum+Poly+Alum)	100%
Braid	Tinned Copper (TC)	85%

Inner Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	1.305 in (33.15 mm)

Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.065 in (1.7 mm)	1.695 in (43.05 mm)	Yes

Overall Cable Diameter (Nominal):	1.695 in (43.05 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.15 Ohm/1000ft (0.49 Ohm/km)	44 pF/ft (140 pF/m)	79 pF/ft (260 pF/m)	42 Ohm	55%	130 Amps per Conductor at 30ºC

Voltage

UL Voltage Rating
600 V (MC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	-25°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
20.3 in (516 mm)	20.3 in (516 mm)

Max. Pull Tension:	3327 lbs (1509 kg)
Bulk Cable Weight:	2014 lbs/1000ft (2997 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, MC, RHW-2
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.76 Revision Date: 05-31-2024