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General Description:

3 - 3/0 AWG stranded (19x11) bare copper circuit conductors plus (3) 8 AWG stranded (7x16) 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 | 3/0 | 19x11 | BC - Bare Copper |

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 8

Ground Wire Stranding: 7x16

Ground Wire Conductor Material: BC - Bare Copper

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|----------------------------------|---------------------|
| XLPE - Cross Linked Polyethylene | 1.4478 |

Outer Shield

Outer Shield Material:

| Layer # | Type | Outer Shield Material | Coverage (%) |
|---------|------|-----------------------|--------------|
| 1 | Tape | Spiral Copper | 100 |
| 2 | Tape | Spiral Copper | 100 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 36.043 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +90°C

Bulk Cable Weight: 3199.630 Kg/Km

Max. Recommended Pulling Tension: 22352.205 N

Min. Bend Radius/Minor Axis: 361.950 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------|
| 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): | 11/09/2005 |
| 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 |

Flame Test

| | |
|------------------|--|
| UL Flame Test: | UL1685 UL Loading |
| CSA Flame Test: | FT4 |
| IEEE Flame Test: | 1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU) |

Suitability

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

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Electrical Characteristics (Overall)

Nom. Inductance:

| |
|-------------------|
| Inductance (µH/m) |
| 0.452778 |

Nom. Capacitance Conductor to Conductor:

| |
|--------------------|
| Capacitance (pF/m) |
| 157.488 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 282.166 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 0.206703 |

Max. Operating Voltage - UL:

| |
|-------------------------|
| Voltage |
| 600 V RMS (NEC Type TC) |

Max. Recommended Current:

| |
|---|
| Current |
| 225 Amps per conductor @ 30°C (per NEC) |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|--------------|-------|-------|------------------------------|
| 29531C 0101000 | 1,000 FT | 2,312.000 LB | BLACK | | 3C3/0 BELDEN BASICS VFD 600V |
| 29531C 0102000 | 2,000 FT | 4,812.000 LB | BLACK | | 3C3/0 BELDEN BASICS VFD 600V |

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