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General Description:

6 AWG stranded (7x14) bare copper circuit conductors plus (3) - 12 AWG stranded (7x20) 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 | 6 | 7x14 | BC - Bare Copper |

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 12

Ground Wire Stranding: 7x20

Ground Wire Conductor Material: BC - Bare Copper

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|----------------------------------|----------------------|
| XLPE - Cross Linked Polyethylene | 0.046 |

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 (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.063 |

Overall Cable

Overall Nominal Diameter: 0.724 in.

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 90°C Wet/Dry

Bulk Cable Weight: 468 lbs/1000 ft.

Max. Recommended Pulling Tension: 915 lbs.

Min. Bend Radius/Minor Axis: 7.300 in.

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): | 08/17/2007 |
| 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 |
|---------------|----|

Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 0.410 |

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 | 75 Amps per conductor @ 25° |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|--------------|-------|-------|--------------------------------|
| 29525C 0101000 | 1,000 FT | 555.000 LB | BLACK | | 3 #6XLPE+3 #12 GRD CU TAPE PVC |
| 29525C 0103500 | 3,500 FT | 1,781.500 LB | BLACK | | 3 #6XLPE+3 #12 GRD CU TAPE PVC |
| 29525C 0105000 | 5,000 FT | 2,495.000 LB | BLACK | | 3 #6XLPE+3 #12 GRD CU TAPE PVC |

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