

Part Number: 29532C

600V VFD, (3) 4/0 AWG (19x10) BC+Grd, XLPE/PVC, Foil Shld, TC-ER



Product Description

Three 4/0 AWG stranded (19x10) bare copper circuit conductors plus three symmetrical ground wires, cross-linked polyethylene insulation, two spiral copper tape shields (100% Coverage), PVC jacket.

Product Specifications

Technical Specifications

| | |
|-------------------------------|---|
| Suitable Applications: | AC Motor drives, VFD, Variable Frequency drives |
|-------------------------------|---|

Construction and Dimensions

Conductor:

| Element | AWG | Stranding | Material | No. of Conductors |
|-------------|-------|-----------|------------------|-------------------|
| | 36617 | 19x10 | BC - Bare Copper | 3 |
| Ground Wire | 8 | 7x16 | BC - Bare Copper | |

| | |
|------------------------------------|---|
| Total Number of Conductors: | 3 |
|------------------------------------|---|

Insulation:

| Material | Nominal Wall Thickness |
|-------------------------------|------------------------|
| XLP - Cross Linked Polyolefin | 0.057 in |

Color Chart 1:

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

Stranding:

| Lay Length |
|------------|
| Y mm |

Outersheild 1:

| Type | Description | Layer | Material | Coverage [%] |
|------|-------------|-------|---------------|--------------|
| Tape | .002" | 1 | Spiral Copper | 100 % |
| Tape | .002" | 2 | Spiral Copper | 100 % |

Outerjacket 1:

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 1.53 in | 0.083 in |

Electrical Characteristics

Conductor DCR:

| Nominal Conductor DCR |
|-----------------------|
| 0.05 Ohm/1000ft |

Capacitance:

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 50 pF/ft | 90 pF/ft |

Current:

| Max. Recommended Current [A] |
|---|
| 260 Amps per conductor @ 30°C (per NEC) |

Inductance:

| Nominal Inductance |
|--------------------|
| 0.136 μ H/ft |

Voltage:

| Description | UL Voltage Rating | Voltage Rating [V] |
|------------------|-------------------------|--------------------|
| CSA AWM I/II A/B | 600 V RMS (NEC Type TC) | 1000 V RMS |

Use

| | |
|------------------------------------|----------|
| Suitability - Oil Resistance: | Yes |
| Suitability - Burial: | Yes |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |
| Max Recommended Pulling Tension: | 6670 lbs |

Safety

| | |
|--------------------|-------------------|
| CSA Flammability: | FT4 |
| IEEE Flammability: | 1202 |
| UL Flammability: | UL1685 UL Loading |

Temperature Range

| | |
|-----------------|------------------|
| Dry Temp Range: | -40 °C To +90 °C |
| Wet Temp Range: | -40 °C To +90 °C |

Mechanical Characteristics

| | |
|-----------------------------|---------|
| Min Bend Radius/Minor Axis: | 15.5 in |
|-----------------------------|---------|

Part Number

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

Standards

| | |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| CSA AWM Specification: | CSA Specification |
| MII Order #39 (China RoHS): | MII Order #39 (China RoHS) |
| NEC Articles: | NEC Articles |
| NEC/(UL) Specification: | NEC/(UL) Specification |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | EU CE Mark |

History

Product Variants

| Part Number | Color | Put-Up Type | Length |
|----------------|-------|-------------|--------|
| 29532C 0101500 | BLACK | Reel | 1500 m |
| 29532C 010500 | BLACK | Reel | 500 ft |

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