

Part Number: 29530C

600V VFD, (3) 2/0 AWG (19x12) BC+Grd, XLPE/PVC, Foil Shld, TC-ER



Product Description

Three 2/0 AWG stranded (19x12) 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 |
|-------------|-------|-----------|------------------|-------------------|
| | 36557 | 19x12 | BC - Bare Copper | 3 |
| Ground Wire | 10 | 7x18 | BC - Bare Copper | |

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

Insulation:

| Material | Nominal Wall Thickness |
|----------------------------------|------------------------|
| XLPE - Cross Linked Polyethylene | 0.057 in |

Stranding:

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

Outersheild 1:

| Type | Layer | Material | Coverage [%] |
|------|-------|---------------|--------------|
| Tape | 1 | Spiral Copper | 100 % |
| Tape | 2 | Spiral Copper | 100 % |

Outerjacket 1:

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 1.29 in | 0.085 in |

Electrical Characteristics

Conductor DCR:

| Nominal Conductor DCR |
|-----------------------|
| 0.079 Ohm/1000ft |

Capacitance:

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 46 pF/ft | 83 pF/ft |

Current:

| Max. Recommended Current [A] |
|---|
| 195 Amps per conductor @ 30°C (per NEC) |

Inductance:

| Nominal Inductance |
|--------------------|
| 0.141 μ H/ft |

Voltage:

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

Use

| | |
|------------------------------------|----------|
| Suitability - Oil Resistance: | Yes |
| Suitability - Burial: | Yes |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |
| Max Recommended Pulling Tension: | 4200 lbs |

Safety

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

Temperature Range

| | |
|-----------------------|----------------|
| Operating Temp Range: | -40°C To +90°C |
| UL Temp Rating: | 90°C Wet/Dry |

Mechanical Characteristics

| | |
|-----------------------------|----------|
| Min Bend Radius/Minor Axis: | 13.25 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/(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 |
|----------------|-------|-------------|---------|
| 29530C 0101000 | BLACK | Reel | 1000 ft |
| 29530C 0102000 | BLACK | Reel | 2000 ft |

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