

Part Number: 29545

2000V UL Flex Motor VFD, (3) 2/0 AWG (7x19x20)
TC+Grd, XLPE/PVC, Foil Shld, TC-ER



Product Description

Three 2/0 AWG stranded (7x19x20) tinned copper circuit conductors plus a symmetrical ground wire, 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 | 7x19x20 | TC - Tinned Copper | 3 |
| Ground Wire | 4 | 7x19x25 | BC - Bare Copper | |

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

Insulation:

| Material | Nominal Wall Thickness |
|----------------------------------|------------------------|
| XLPE - Cross Linked Polyethylene | 0.09 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 |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 1.55 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 |
|---|---|
| 50 pF/ft | 90 pF/ft |

Impedance:

| Nominal Characteristic Impedance |
|----------------------------------|
| 49 Ohm |

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 |
|--|
| 2000 V RMS (Flexible Motor Supply Cable) |
| 2000 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: | 15.5 in |
|-----------------------------|---------|

Part Number

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

Standards

| | |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| CEC/C(UL) Specification: | CEC/C(UL) Specification |
| CSA AWM Specification: | CSA Specification |
| MII Order #39 (China RoHS): | MII Order #39 (China RoHS) |
| NEC/(UL) Specification: | NEC/(UL) Specification |
| Other Specification: | Other Specification |
| PMSHA Specification: | PMSHA 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 |
|---------------|-------|-------------|---------|
| 29545 0101000 | BLACK | Reel | 1000 ft |
| 29545 0102000 | BLACK | Reel | 2000 ft |

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