



Product: [29512](#)

VFD 300% Gnd, 3C+G #12 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd, 1 Pr #16 Str TC XLPE IS, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable

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Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 12AWG (65x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, 1 Pair 16AWG (26x30) Tinned Copper XLPE Beldfoil, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable 1000V CSA AWM I/II A/B 600V CIC TC SUN RES DIR BUR Oil Resistant

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors |
|------------|-----|-----------|--------------------|-------------------|
| Conductor | 12 | 65x30 | TC - Tinned Copper | 3 |
| Brake Pair | 16 | 26x30 | TC - Tinned Copper | 2 |
| Ground | 12 | 65x30 | TC - Tinned Copper | 1 |

| | |
|------------------|---|
| Conductor Count: | 5 |
|------------------|---|

Insulation

| Material | Nominal Wall Thickness |
|-----------------------------|------------------------|
| XLP, XLPO, XLPE (Thermoset) | 0.046 in |
| XLP, XLPO, XLPE (Thermoset) | 0.032 in |
| PVC - Polyvinyl Chloride | 0.045 in |

Color Chart

| Number | Color |
|--------|----------------------|
| 1 | Black #1 |
| 2 | Black #2 |
| 3 | Black #3 |
| 4 | Black and White Pair |
| 5 | Green/Yellow |

Inner Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG |
|------|-------------|---------------------|--------------|--------------------|---------------|
| Tape | Alum / Poly | Beldfoil® | 100% | TC - Tinned Copper | 18 |

Outer Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|-------|-------|--------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | 1 | Alum / Poly / Alum | Duofoil® | 100% | TC - Tinned Copper | 12 | 65x30 |
| Braid | 2 | Tinned Copper (TC) | | 85% | | | |

| | |
|--------------|--|
| Table Notes: | Duofoil+Braid is over Power conductors only, Brake Pair has only the Foil Inner Shield |
|--------------|--|

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|----------|------------------|------------------------|---------|
|----------|------------------|------------------------|---------|

| | | | |
|--------------------------|----------|---------|-----|
| PVC - Polyvinyl Chloride | 0.895 in | 0.08 in | Yes |
|--------------------------|----------|---------|-----|

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Inner Shield DCR |
|-----------------------|--------------------------|
| 1.6 Ohm/1000ft | 4.99 Ohm/1000ft |
| 4 Ohm/1000ft | 4.99 Ohm/1000ft |
| 1.6 Ohm/1000ft | |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Shield |
|---|--------------------------------------|
| 26 pF/ft | 47 pF/ft |
| 34 pF/ft | |
| 26 pF/ft | 47 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.197 µH/ft |
| 0.197 µH/ft |

Voltage

| UL Voltage Rating |
|---------------------|
| 1000 V RMS |
| 600 V RMS (Type TC) |

Temperature Range

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

Mechanical Characteristics

| | |
|-----------------------------|---------|
| Max. Pull Tension: | 527 lbs |
| Min Bend Radius/Minor Axis: | 9 in |

Standards

| | |
|-----------------------|--------------------------------------|
| NEC Articles: | Article 336 |
| NEC/(UL) Compliance: | RHW-2, TC-ER |
| CEC/C(UL) Compliance: | CIC, TC |
| CSA AWM Compliance: | AWM I/II A/B |
| PMSHA Compliance: | P-07-KA070003 |
| Other Compliance: | 1000V UL Flexible Motor Supply Cable |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2006-09-21 |
| MII Order #39 (China RoHS): | Yes |

Suitability

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

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|--|
| UL Flammability: | UL1685 UL Loading |
| CSA Flammability: | FT4 |
| IEEE Flammability: | 1202, 383 |
| UL voltage rating: | 1000 V RMS (Flexible Motor Supply Cable) |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 29512 010100 | Black | Reel | 100 ft | 612825137542 |
| 29512 010500 | Black | Reel | 500 ft | 612825137573 |
| 29512 0101000 | Black | Reel | 1,000 ft | 612825137559 |
| 29512 0104000 | Black | Reel | 4,000 ft | 612825137566 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.355 Revision Date: 04-28-2020 |
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