

29505 Multi-Conductor - 1000V UL Flexible Motor Supply Cable



For more Information
please call

1-800-Belden1

**General Description:**

4-cond. (3)stranded tinned copper circuit conductors plus (1)ground wire , XLP insulation, Overall Duofoil® (100% cov.) plus a tinned copper braid shield (85% cov.) , tinned copper sectioned drain wire, sun-&oil-resistant , sun-&oil-resistant PVC jacket.

Usage (Overall)

Suitable Applications: AC Motor Drives, VFD, Variable Frequency Drives

Physical Characteristics (Overall)**Conductor**

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 3 | 6 | 7x19x27 | TC - Tinned Copper |

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 6

Ground Wire Stranding: 7x19x27

Ground Wire Conductor Material: TC - Tinned Copper

Ground Wire Insulation Material: PVC - Polyvinyl Chloride

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|-------------------------------|----------------------|
| XLP - Cross Linked Polyolefin | 0.060 |

Insulation Resistance: 300 Megaohms/1000 ft.

Insulation Color Code Chart:

| Number | Color |
|--------|----------------------|
| 1 | Black and Numbered 1 |
| 2 | Black and Numbered 2 |
| 3 | Black and Numbered 3 |
| 4 | Green/Yellow |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 85 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|---------|-----------|-------------------------------|
| 12 (4x) | 65x30 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.093 |

Overall Cable

Overall Nominal Diameter: 1.028 in.

Mechanical Characteristics (Overall)

Wet Temperature Range: -40°C To +90°C

Dry Temperature Range: -40°C To +90°C

Bulk Cable Weight: 811 lbs/1000 ft.

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| | |
|-----------------------------------|-----------|
| Max. Recommended Pulling Tension: | 1220 lbs. |
| Min. Bend Radius/Minor Axis: | 8.250 in. |

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

| | |
|---------------------------------------|--------------------------------------|
| NEC/(UL) Specification: | TC-ER, Unlisted Singles, WTTC |
| NEC Articles: | 336 - ER |
| CEC/C(UL) Specification: | 600V Type CIC TC |
| 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): | 10/13/2005 |
| 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 |
| Other Specification: | 1000V UL Flexible Motor Supply Cable |

Flame Test

| | |
|------------------|--|
| UL Flame Test: | UL1685 UL Loading |
| CSA Flame Test: | FT4 |
| IEEE Flame Test: | 1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU) |

Suitability

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

Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

56

Nom. Inductance:

Inductance (µH/ft)

.171

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

33

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

60

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

0.41

Max. Operating Voltage - UL:

Voltage

1000 V RMS (Flexible Motor Supply Cable)

600 V RMS (NEC Type TC)

Max. Operating Voltage - Other:

| Voltage | Description |
|------------|------------------|
| 1000 V RMS | CSA AWM I/II A/B |

Max. Recommended Current:

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Current

75 Amps per conductor @ 30°C (per NEC)

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|--------------|-------|-------|--------------------------|
| 29505 0101000 | 1,000 FT | 911.000 LB | BLACK | C Z | 3 #6 XLPE, #6 PVC SH HMF |
| 29505 010250 | 250 FT | 212.750 LB | BLACK | C Z | #6/4C XLPE SHPVC |
| 29505 0103500 | 3,500 FT | 3,045.000 LB | BLACK | C Z | 3 #6 XLPE, #6 PVC SH HMF |

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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