

29504 Multi-Conductor - 1000V UL Flexible Motor Supply Cable



For more Information
please call

1-800-Belden1



Description:

4-cond. (3)stranded tinned copper circuit cond. plus (1)ground wire with PVC insulation, XLPE insulation, overall Duofoil® (100% cov.) plus a tinned copper braid shield (85% cov.), with tinned copper sectioned drain wire, 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 | 8 | 7x19x29 | TC - Tinned Copper |

Ground Wire

| | |
|---|--------------------------|
| Ground Wire (Y/N): | Y |
| Ground Wire AWG: | 8 |
| Ground Wire Stranding: | 7x19x29 |
| Ground Wire Conductor Material: | TC - Tinned Copper |
| Ground Wire Insulation Material: | PVC - Polyvinyl Chloride |

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|----------------------------------|----------------------|
| XLPE - Cross Linked Polyethylene | .060 |

Insulation Resistance: 300 Megaohms/1000 ft.

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 |
|---------|-----------|-------------------------------|
| 14 (4x) | 41x30 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 0.930 in.

Mechanical Characteristics (Overall)

| | |
|-------------------------------|------------------|
| UL Temperature Rating: | 90°C Wet/Dry |
| Bulk Cable Weight: | 604 lbs/1000 ft. |

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| | |
|--|-----------|
| Max. Recommended Pulling Tension: | 768 lbs. |
| Min. Bend Radius (Install)/Minor Axis: | 7.500 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|--------------------------------------|
| NEC/(UL) Specification: | TC-ER, Unlisted Singles, WTTC |
| NEC Articles: | 336 - ER |
| CSA Specification: | 1000 V AWM I/II A/B |
| 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)

62

Nom. Inductance:

Inductance (µH/ft)

.181

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

30

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

0.64

Max. Operating Voltage - UL:

Voltage

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| |
|--|
| 1000 V RMS (Flexible Motor Supply Cable) |
| 600 V RMS (NEC Type TC) |

Max. Recommended Current:

| |
|--|
| Current |
| 55 Amps per conductor @ 30°C (per NEC) |

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|--------------|-------|-------|-------------------|
| 29504 0101000 | 1,000 FT | 660.000 LB | BLACK | C Z | #8/4C XLPE SHPVC |
| 29504 010250 | 250 FT | 158.500 LB | BLACK | C Z | #8/4C XLPE SHPVC |
| 29504 010500 | 500 FT | 332.000 LB | BLACK | C Z | #8/4C XLPE SHPVC |
| 29504 0105000 | 5,000 FT | 3,135.000 LB | BLACK | C Z | #8/4C XLPE SH PVC |

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.

Revision Number: 1 Revision Date: 10-19-2011

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