A P P L I C A T I O N S

Multi-conductor shielded cable approved for direct burial, free air or raceways, in wet or dry locations, sunlight resistant, -40°C UL cold bend, Oil I & II, Class Div. 1 & 2, rated 90°C wet or dry, UL 1000 volts flexible motor supply cable.

I N D U S T R Y A P P R O V A L S

- UL 1277 - 600 Volt RMS Type TC-ER Unlisted Singles
- UL 2277 - 1000 Volt RMS Flexible Motor Supply Cable; WTTC
- UL 44
- UL 1581
- ICEA S-73-532/NEMA WC-57
- ICEA S-95-658/NEMA WC-70
- NEC® Article 336 - ER
- Permitted for use in Class 1 Division 2 for hazardous areas
- Oil Res. I & II
- -40°C UL Cold Bend
- Flame Tests: UL1277, UL 1685, UL 1581 VW-1, IEEE 1202 c(UL)

C O N S T R U C T I O N

(3) Stranded tinned copper circuit conductors plus (1) full size insulated ground wire (4/C cable) plus double sided aluminum foil tape shield plus (1) full size drain wire under shield tape plus tinned copper braid (85%) over shield tape jacket

- Circuit Conductors:
  Size per table, XLPE insulation, black with printed numbers
- Ground Wire:
  Same size as circuit conductors PVC insulation - green with yellow stripe
- Drain Wire:
  Same size as circuit conductors, number size and strand per table; under foil tape
- Foil Tape:
  Double sided aluminium foil tape, polyester reinforced for strength
- Braid:
  Tinned copper, 85% coverage; over foil tape
- Jacket:
  Copolymer jacket
- Sample Jacket Marking:
  TAPPAN W & C E135319 (UL) TYPE TC-ER XX/C XX/AWG XLPE CDRS 90C WET OR DRY 600 V DIR. BUR. SUN. RES. -40C UL COLD BEND OIL I & II CLASS 1 DIV 2 c(UL) FT-4 VFD 1000 V FLEXIBLE MOTOR SUPPLY CABLE MADE IN USA
### Weights, Measurements and Packaging

<table>
<thead>
<tr>
<th>Tappan Spec Number</th>
<th>Number of Conductors Including Ground</th>
<th>Conductor Size (AWG)</th>
<th>Conductor Stranding (#/AWG)</th>
<th>Insulation Thickness (inch)</th>
<th>Number of Drain Wires</th>
<th>Drain Wire AWG &amp; Stranding</th>
<th>Nominal Overall Diameter (inch)</th>
<th>Net Weight (lbs/1000 ft)</th>
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<tbody>
<tr>
<td>H91949.1 4</td>
<td>16</td>
<td>26/30</td>
<td>.0450</td>
<td>1</td>
<td>16 (26/30)</td>
<td>0.535</td>
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<td>H91950.1 4</td>
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<td>41/30</td>
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<td>H91870.1 4</td>
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<td>H91951.1 4</td>
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<td>105/30</td>
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<td>1</td>
<td>10 (105/30)</td>
<td>0.721</td>
<td>354</td>
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Weights and dimensions are nominal and are subject to applicable industry tolerances.

### VFD Cable Selection Guide

<table>
<thead>
<tr>
<th>AWG</th>
<th>230 V/3 PH</th>
<th>460 V/3 PH</th>
<th>575 V/3 PH</th>
<th>AWG</th>
<th>230 V/3 PH</th>
<th>460 V/3 PH</th>
<th>575 V/3 PH</th>
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</thead>
<tbody>
<tr>
<td>16</td>
<td>1/4 to 3 HP</td>
<td>10 HP</td>
<td>10 HP</td>
<td>8</td>
<td>15 HP</td>
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<td>15 HP</td>
<td>6</td>
<td>20 HP</td>
<td>40 HP</td>
<td>50 HP</td>
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<td>12</td>
<td>7 1/2 HP</td>
<td>15 HP</td>
<td>20 HP</td>
<td>4</td>
<td>25 HP</td>
<td>50 HP</td>
<td>60 HP</td>
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<td>10</td>
<td>10 HP</td>
<td>20 HP</td>
<td>30 HP</td>
<td>2</td>
<td>40 HP</td>
<td>75 HP</td>
<td>100 HP</td>
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</table>

Values based on typical full load current (FLC) ratings of three phase AC motors as published in NEC® Table 430.250 (2005) Multiplied by 125% per NEC® article 430-22 (A) (2005). The ampacity ratings of the cables are based on NEC® Table 310.16 (2005), for 90° crated conductors. The VFD w/signal pair ampacity ratings were de-rated to 80% per NEC® Table 310.15 (B)(2)(a)(2005) due to increased number of current carrying conductors included in these cables. Please consult drive/motor manufacturers for exact FLC ratings as well as any temperature deratings that may apply. NEC® ampacity interpretations are subject to user’s local authority having jurisdiction.