VARIABLE FREQUENCY DRIVE 600/1000 VOLT FLEXIBLE CABLE

Type TC-ER Variable Frequency Drive Cable 600 Volt Tinned Copper Conductors, Cross Linked Insulation
Type RHH/RHW-2 Thermoplastic Elastomer Jacket, 90°C Dry or Wet -40°C Cold Impact Identification
Method 4. 1000 Volt Flexible Motor Supply

CONSTRUCTION:
1. Conductors: Class K, Flexible stranded tinned annealed copper per ASTM B3, B172, and B174
2. Insulation: Cross Linked insulation on all conductors. Type RHH/RHW-2 on 14 awg and larger.
3. Ground: One green ground with yellow stripe cross linked insulation. Size equal to phase conductor
4. Drain Wire: Tinned copper
5. Shielding: 100% coverage Alum/Mylar/Alum Foil, overall 85% coverage tinned copper braid
6. Jacket: Black Thermoplastic Elastomer TPE

APPLICATIONS AND FEATURES:
Power supply cable for VFDs and motors, suitable for cable tray, conduit, raceways, exposed run (TC-ER) and machine tool wiring conforming to NFPA 79 2018. Suitable for free air and direct burial. For use on operation processes including fans, pumps, conveyors, compressors, elevators and lifts, extruders, crushers and presses. Can be used in accordance with NEC® Articles 336, 501 and 502.

SPECIFICATIONS:
- ASTM B172 - Rope-Lay-Stranded Copper Conductors
- ASTM B174 - Bunch-Stranded Copper Conductors
- ASTM B33 - Tinned soft or annealed Copper
- UL 44 - Thermostet Insulation
- UL 1277 - Type TC-ER Standard Power and Control Cables
- UL 2277 - Type WTTC Flexible Motor Supply
- UL 758 - AWM Style 20886 Standard for Appliance Wiring Material.
- C22.2 No. 230 Type TC
- CSA 22.2 No. 239 TYPE CIC
- CSA C22.2 No. 210 - CSA AWM I/II A/B
- NFPA 79 - Electrical Standard for Industrial Machinery
- CE/RoHS-2 – The CE Marking has been applied solely to express the conformance to the material restrictions identified in the RoHS-2 (2011/65/EU) Directive.

SAMPLE PRINT LEGEND
Southwire XXAWG (XXmm2) XX/C VFD RHH/RHW-2 CDRS TYPE TC-ER XXXXXX (UL) 600V 90°C DRY 90°C WET SUN RES OIL RES I/II
DIR BUR -40°C OR WTTTC 1000V OR AWM 20886 105°C 1000V OR Flexible Motor Supply Cable 1000V -- LLXXXXXX CSA CIC/TC FT4 OR
AWM I/II A/B 1000V 105C FT4 -40°C -- CE RoHS-2 Made in USA
### Table 1 – Measurements and Electrical

<table>
<thead>
<tr>
<th>Stock Code</th>
<th>Conductor Size</th>
<th>Cond. OD</th>
<th>Num. of Cond.</th>
<th>Ground Wire</th>
<th>Insulation Thickness</th>
<th>Jacket Thickness</th>
<th>Nominal OD (6)</th>
<th>Nominal Weight</th>
<th>Ampacity NEC 310.15 (B) (16) amps</th>
<th>Min Bend Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>585342◊</td>
<td>16 (26)</td>
<td>0.054</td>
<td>3</td>
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<td>1 x 16</td>
<td>46</td>
<td>62</td>
<td>0.523</td>
<td>171</td>
<td>10</td>
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<tr>
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<td>46</td>
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<td>0.565</td>
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<td>1 x 12</td>
<td>1 x 12</td>
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<td>62</td>
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<td>1 x 8</td>
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<td>80</td>
<td>0.870</td>
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</tbody>
</table>

Ampacity based on 310.15 (B) (16) up to and including 2000 volts, not more than 3 current-carrying conductors, ambient 30°C (86°F)

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item