APPLICATIONS
These are three conductor, 600 volt, Variable Frequency Drive cables with cross-linked thermosetting polyethylene (XLPE) insulation, three bare grounding conductors (one in each interstice), a corrugated copper shield and an overall polyvinyl chloride (PVC) jacket. These cables are UL type TC rated.
The VFD Power Cables are designed for use with low voltage (600 volt) AC motors controlled for speed by modern PWM (pulse width modulated) inverters. These PWM inverters require properly designed power cables to prevent RF (radio frequency) electrical signals from causing stray electrical noise or malfunction of the motor.

FEATURES
1. CONDUCTORS
   Class B, soft drawn, bare copper per ASTM B3 and ASTM B8.
2. INSULATION
   Heat and moisture resistant, cross-linked thermo-setting polyethylene (XLPE) meeting the requirements of UL 44. The insulation is suitable for use in wet or dry locations at a conductor temperature not exceeding 90°C for normal operation. The insulation thickness is in accordance with Table 15.3 of UL 44. Single conductors pass VW-1 flame test.
3. GROUNDING CONDUCTORS
   Class B stranded, soft drawn, bare copper per ASTM B3 and ASTM B8. The grounding conductor is sectioned into three equal sections.
4. CIRCUIT IDENTIFICATION
   Appendix E, Method 4 of ICEA S-73-532 (NEMA WC 57). Black conductors with number print: 1-ONE, 2-TWO & 3-THREE.
5. ASSEMBLY
   The insulated circuit conductors and three bare grounding conductors are cabled together with non-hygroscopic fillers as needed. The cabled core is wrapped with a binder tape. A corrugated copper shield is applied to the taped core. A PVC jacket is applied to the shielded core.
6. SHIELD
   5 mil thick copper tape (10 mil for 250, 350 and 500 KCMIL versions) corrugated and longitudinally applied with a minimum overlap of 15%.
7. OVERALL JACKET
   Heat and moisture resistant, black polyvinyl chloride (PVC) meeting the requirements of UL 1581. The thickness is in accordance with Table 11.3 of UL 1277.
8. SURFACE MARKING
   The jacket surface shall be printed or indented with: DRAKA CABLETEQ USA-PA TAMAQUA CABLE (NUMBER & SIZE OF CONDUCTOR) XHHW-2 TYPE TC (NUMBER AND SIZE OF GROUNDING CONDUCTOR) VFD POWER CABLE UL 600V, SUN RES DIR BUR.
9. SPECIAL INSTALLATION PRACTICES
   It is highly recommended that proper cable fittings be used to terminate the cables at junction boxes, control centers, panel boards and enclosures. The recommended fittings are available from Crouse-Hinds with the TERMINATOR trademark.

RATINGS
UL Standard 44
UL Standard 1277
IEEE 1202 (70,000 BTU/HR) Flame Test
ICEA T-29-520 (210,000 BTU/HR) Flame Test
MSHA approved
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of Conductors/Size</th>
<th>Uses Crouse-Hinds Terminator™ Part Number</th>
<th>Number of Grounds/Size</th>
<th>Nominal Insulation Thickness in (mm)</th>
<th>Diameter Over Shield in (mm)</th>
<th>Nominal Cable O.D. in (mm)</th>
<th>Approximate Cable Weight Lbs/Mft (Kg/Km)</th>
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<td>3 / 16 AWG</td>
<td>**</td>
<td>3 / 18 AWG</td>
<td>.030 (0.7)</td>
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*Insulation thicknesses shown are 600 volt. 2000 volt insulation thicknesses can also be supplied as an alternative.

Optional features available are: 1) Ethylene propylene rubber (EPR) insulation, 2) CPE, LSZH or TPE jacket.

**Part numbers to be determined.

Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.