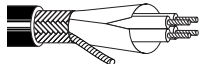


# VFD (Variable Frequency Drive) Cable

## 1000V UL Flexible Motor Supply Cable

| Description   | Part No.                                      | AWG          | Cond. Stranding | Standard Lengths |        | Standard Unit Wt. |        | Nominal OD |       | Maximum Pull Tension |       | Minimum Bend Radius |        |        |
|---|---|--------------|-----------------|------------------|--------|-------------------|--------|------------|-------|----------------------|-------|---------------------|--------|--------|
|   |   |              |                 | Ft.              | m      | Lbs.              | kg     | Inch       | mm    | Lbs.                 | N     | Inch                | mm     |        |
| <b>4-cond.</b> (3) Stranded TC Circuit Conductors + (1) Ground* • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage) • TC Drain Wire* |   |              |                 |                  |        |                   |        |            |       |                      |       |                     |        |        |
| <b>XLPE Insulation (Circuit Condrs) • PVC Insulation (Ground) • Black Sunlight- and Oil-resistant PVC Jacket</b>                                      |   |              |                 |                  |        |                   |        |            |       |                      |       |                     |        |        |
| <b>1000V UL Flexible Motor Supply Cable</b><br>600V UL 1277 Type TC-ER per 2005 NEC Article 336<br><b>1000V CSA AWM I/II A/B FT4</b><br>90°C Wet/Dry  | <b>29500</b>                                  | 16           | 26x30           | 250†             | 76.2   | 46.2              | 21.0   | .53        | 13.46 | 128                  | 568   | 3.9                 | 99.06  |        |
|   |   |              |                 | 500†             | 152.4  | 93.0              | 42.2   |            |       |                      |       |                     |        |        |
|   |   |              |                 | 1000†            | 304.8  | 182.0             | 82.6   |            |       |                      |       |                     |        |        |
|   |   |              |                 | 6000†            | 1828.8 | 1080.0            | 490.3  |            |       |                      |       |                     |        |        |
|   | All Allen-Bradley Series 160 and 1305 drives. | <b>29501</b> | 14              | 41x30            | 250†   | 76.2              | 59.7   | 27.1       | .55   | 13.97                | 212   | 942                 | 4.5    | 114.30 |
|   |   |              |                 |                  | 500†   | 152.4             | 120.0  | 54.5       |       |                      |       |                     |        |        |
|   |   |              |                 |                  | 1000†  | 304.8             | 233.0  | 105.8      |       |                      |       |                     |        |        |
|   |   |              |                 |                  | 5000†  | 1524.0            | 1215.0 | 551.6      |       |                      |       |                     |        |        |
|   | Allen-Bradley 1336F(S)-BRF05 through BRF100   | <b>29502</b> | 12              | 65x30            | 250†   | 76.2              | 69.8   | 31.7       | .60   | 15.24                | 336   | 1495                | 4.9    | 124.46 |
|   |   |              |                 |                  | 500†   | 152.4             | 151.5  | 68.8       |       |                      |       |                     |        |        |
| 1000†   |   |              |                 |                  | 304.8  | 298.0             | 135.3  |            |       |                      |       |                     |        |        |
| 5000†   |   |              |                 |                  | 1524.0 | 1570.0            | 712.8  |            |       |                      |       |                     |        |        |
| Allen-Bradley 1336F(S)-BRF150, BRF200   | <b>29503</b>                                  | 10           | 105x30          | 250†             | 76.2   | 91.3              | 41.4   | .66        | 16.76 | 525                  | 2335  | 5.4                 | 137.16 |        |
|   |   |              |                 | 500†             | 152.4  | 194.5             | 88.3   |            |       |                      |       |                     |        |        |
|   |   |              |                 | 1000†            | 304.8  | 375.0             | 170.3  |            |       |                      |       |                     |        |        |
|   |   |              |                 | 5000†            | 1524.0 | 2025.0            | 919.4  |            |       |                      |       |                     |        |        |
| Allen-Bradley 1336F(S)-B015   | <b>29504</b>                                  | 8            | 7x19x29         | 250†             | 76.2   | 158.5             | 72.0   | .89        | 22.61 | 1328                 | 5906  | 7.3                 | 185.42 |        |
|   |   |              |                 | 500†             | 152.4  | 332.0             | 150.7  |            |       |                      |       |                     |        |        |
|   |   |              |                 | 1000†            | 304.8  | 660.0             | 299.6  |            |       |                      |       |                     |        |        |
|   |   |              |                 | 5000†            | 1524.0 | 3135.0            | 1423.3 |            |       |                      |       |                     |        |        |
| Allen-Bradley 1336F(S)-B020   | <b>29505</b>                                  | 6            | 7x19x27         | 250†             | 76.2   | 221.3             | 100.5  | .99        | 25.15 | 2048                 | 9109  | 8.0                 | 203.20 |        |
|   |   |              |                 | 1000†            | 304.8  | 906.0             | 411.3  |            |       |                      |       |                     |        |        |
|   |   |              |                 | 3500†            | 1066.8 | 3206.0            | 1455.5 |            |       |                      |       |                     |        |        |
|   |   |              |                 | 5000†            | 1524.0 | 3206.0            | 1455.5 |            |       |                      |       |                     |        |        |
| Allen-Bradley 1336F(S)-B025, B030   | <b>29506</b>                                  | 4            | 7x19x25         | 250†             | 76.2   | 319.5             | 145.1  | 1.15       | 29.21 | 3152                 | 14021 | 9.2                 | 233.68 |        |
|   |   |              |                 | 1000†            | 304.8  | 1231.0            | 558.9  |            |       |                      |       |                     |        |        |
|   |   |              |                 | 3000†            | 914.4  | 3843.0            | 1744.7 |            |       |                      |       |                     |        |        |
|   |   |              |                 | 5000†            | 1524.0 | 3843.0            | 1744.7 |            |       |                      |       |                     |        |        |
| Allen-Bradley 1336F(S)-BX040, B040  | <b>29507</b>                                  | 2            | 7x19x23         | 250†             | 76.2   | 437.8             | 198.7  | 1.29       | 32.77 | 4872                 | 21672 | 10.5                | 266.70 |        |
|   |   |              |                 | 500†             | 152.4  | 875.5             | 397.5  |            |       |                      |       |                     |        |        |
|   |   |              |                 | 1000†            | 304.8  | 1711.0            | 776.8  |            |       |                      |       |                     |        |        |
|   |   |              |                 | 2000†            | 609.6  | 3682.0            | 1671.6 |            |       |                      |       |                     |        |        |
| Allen-Bradley 1336F(S)-B050, BX060, B060  | <b>29508</b>                                  | 1            | 7x19x22         | 250 ††           | 76.2   | 398.8             | 181.0  | 1.20       | 30.48 | 2650                 | 11788 | 12.0                | 304.8  |        |
|   |   |              |                 | 1000 ††          | 304.8  | 1642.0            | 746.0  |            |       |                      |       |                     |        |        |
|   |   |              |                 | 3000 †           | 1524.0 | 4779.0            | 2169.7 |            |       |                      |       |                     |        |        |
|   |   |              |                 | 5000 †           | 1524.0 | 4779.0            | 2169.7 |            |       |                      |       |                     |        |        |
| <b>29529</b><br><small>(NEW)</small>  | 1/0   | 7x19x21      | 250 ††          | 76.2             | 525.8  | 238.7             | 1.29   | 32.77      | 3537  | 15733                | 12.9  | 327.7               |        |        |
|   |   |              | 1000 ††         | 304.8            | 2050.0 | 930.7             |        |            |       |                      |       |                     |        |        |
|   |   |              | 2000 †          | 609.6            | 3954.0 | 1795.1            |        |            |       |                      |       |                     |        |        |
|   |   |              | 5000 †          | 1524.0           | 3954.0 | 1795.1            |        |            |       |                      |       |                     |        |        |
| <b>29530</b><br><small>(NEW)</small>  | 2/0   | 7x19x20      | 250 ††          | 76.2             | 602.0  | 273.3             | 1.40   | 35.56      | 4200  | 18682                | 14.0  | 355.6               |        |        |
|   |   |              | 1000 ††         | 304.8            | 2362.0 | 1072.4            |        |            |       |                      |       |                     |        |        |
|   |   |              | 2000 †          | 609.6            | 4744.0 | 2153.8            |        |            |       |                      |       |                     |        |        |
|   |   |              | 5000 †          | 1524.0           | 4744.0 | 2153.8            |        |            |       |                      |       |                     |        |        |
| <b>29531</b><br><small>(NEW)</small>  | 3/0   | 7x19x19      | 250 ††          | 76.2             | 699.5  | 317.6             | 1.52   | 38.61      | 5025  | 22352                | 15.2  | 386.1               |        |        |
|   |   |              | 1000 ††         | 304.8            | 2708.0 | 1229.4            |        |            |       |                      |       |                     |        |        |
|   |   |              | 3000 †          | 1524.0           | 5436.0 | 2467.9            |        |            |       |                      |       |                     |        |        |
|   |   |              | 5000 †          | 1524.0           | 5436.0 | 2467.9            |        |            |       |                      |       |                     |        |        |
| <b>29532</b><br><small>(NEW)</small>  | 4/0   | 7x19x18      | 250 ††          | 76.2             | 881.0  | 400.0             | 1.68   | 42.67      | 6670  | 29670                | 16.8  | 426.7               |        |        |
|   |   |              | 500 ††          | 152.4            | 1873.0 | 850.3             |        |            |       |                      |       |                     |        |        |
|   |   |              | 1500 †          | 457.2            | 5619.0 | 2551.0            |        |            |       |                      |       |                     |        |        |
|   |   |              | 5000 †          | 1524.0           | 5619.0 | 2551.0            |        |            |       |                      |       |                     |        |        |



Color Code: ICEA Method 4 (Black and Numbered); Green/Yellow Ground  
UL Direct Burial. XHHW-2, RHW-2 rated circuit conductors.

### Three (3) Stranded TC Circuit Conductors + (3) Symmetrical Bare Copper Grounds • (2) Spiral Copper Tape Shields (100% Coverage)

| <b>XLPE Insulation (Circuit Condrs) • Black Sunlight- and Oil-resistant PVC Jacket</b>  |                                      |         |         |         |        |        |        |       |       |       |       |       |       |
|---|--------------------------------------|---------|---------|---------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| <b>1000V UL Flexible Motor Supply Cable</b><br>600V UL 1277 Type TC-ER per 2005 NEC Article 336<br><b>600V CSA AWM I/II A/B FT4</b><br>90°C Wet/Dry | <b>29528</b><br><small>(NEW)</small> | 1       | 7x19x22 | 250 ††  | 76.2   | 398.8  | 181.0  | 1.20  | 30.48 | 2650  | 11788 | 12.0  | 304.8 |
|   |                                      |         |         | 1000 †† | 304.8  | 1642.0 | 746.0  |       |       |       |       |       |       |
|   |                                      |         |         | 3000 †  | 1524.0 | 4779.0 | 2169.7 |       |       |       |       |       |       |
|   |                                      |         |         | 5000 †  | 1524.0 | 4779.0 | 2169.7 |       |       |       |       |       |       |
|   | <b>29529</b><br><small>(NEW)</small> | 1/0     | 7x19x21 | 250 ††  | 76.2   | 525.8  | 238.7  | 1.29  | 32.77 | 3537  | 15733 | 12.9  | 327.7 |
|   |                                      |         |         | 1000 †† | 304.8  | 2050.0 | 930.7  |       |       |       |       |       |       |
|   |                                      |         |         | 2000 †  | 609.6  | 3954.0 | 1795.1 |       |       |       |       |       |       |
|   |                                      |         |         | 5000 †  | 1524.0 | 3954.0 | 1795.1 |       |       |       |       |       |       |
|   | <b>29530</b><br><small>(NEW)</small> | 2/0     | 7x19x20 | 250 ††  | 76.2   | 602.0  | 273.3  | 1.40  | 35.56 | 4200  | 18682 | 14.0  | 355.6 |
|   |                                      |         |         | 1000 †† | 304.8  | 2362.0 | 1072.4 |       |       |       |       |       |       |
| 2000 †  |                                      |         |         | 609.6   | 4744.0 | 2153.8 |        |       |       |       |       |       |       |
| 5000 †  |                                      |         |         | 1524.0  | 4744.0 | 2153.8 |        |       |       |       |       |       |       |
| <b>29531</b><br><small>(NEW)</small>  | 3/0                                  | 7x19x19 | 250 ††  | 76.2    | 699.5  | 317.6  | 1.52   | 38.61 | 5025  | 22352 | 15.2  | 386.1 |       |
|   |                                      |         | 1000 †† | 304.8   | 2708.0 | 1229.4 |        |       |       |       |       |       |       |
|   |                                      |         | 3000 †  | 1524.0  | 5436.0 | 2467.9 |        |       |       |       |       |       |       |
|   |                                      |         | 5000 †  | 1524.0  | 5436.0 | 2467.9 |        |       |       |       |       |       |       |
| <b>29532</b><br><small>(NEW)</small>  | 4/0                                  | 7x19x18 | 250 ††  | 76.2    | 881.0  | 400.0  | 1.68   | 42.67 | 6670  | 29670 | 16.8  | 426.7 |       |
|   |                                      |         | 500 ††  | 152.4   | 1873.0 | 850.3  |        |       |       |       |       |       |       |
|   |                                      |         | 1500 †  | 457.2   | 5619.0 | 2551.0 |        |       |       |       |       |       |       |
|   |                                      |         | 5000 †  | 1524.0  | 5619.0 | 2551.0 |        |       |       |       |       |       |       |

Color Code: ICEA Method 4 (Black and Numbered)  
UL Direct Burial. XHHW-2 circuit conductors.

TC = Tinned Copper • TC-ER = Tray Cable - Exposed Run per 2005 NEC Article 336 • XLPE = Cross-linked Polyethylene

\*Ground(s) and drain wire(s) are same AWG as circuit conductors.

†Final put-up length may vary ±10% from length shown.

††Final put-up length may vary ±5% from length shown.

### Encoder Cables

Belden also offers the following standard cables for encoder applications. Encoder cables help feed information to the microprocessor regarding both the speed and the position of the rotor.

| Part No.                   | Pairs | AWG |
|----------------------------|-------|-----|
| <b>8790</b> (Power Supply) | 1     | 18  |
| <b>9729</b>                | 2     | 24  |
| <b>9730, 89730</b>         | 3     | 24  |
| <b>9728</b>                | 4     | 24  |
| <b>9892</b>                | 4     | 20  |

See Index for page numbers.

