



## 3 Conductor TECK90 VARIABLE FREQUENCY DRIVE 1000V CSA FT4

| 3C             | Part No. | Power Conductor | 3 Bonding Conductors | Insulation Thickness |       | Inner Jacket O.D. |       | Armour O.D. |       | Cable O.D. |      | Cable Weight |       | Max Pulling Tension |      | Min Bend Radius |     | Ampacity |
|----------------|----------|-----------------|----------------------|----------------------|-------|-------------------|-------|-------------|-------|------------|------|--------------|-------|---------------------|------|-----------------|-----|----------|
|                |          | AWG/kcmil       | AWG                  | in                   | mm    | in                | mm    | in          | mm    | in         | mm   | lbs/Mft      | kg/km | lbs                 | kg   | in              | mm  | A        |
| T1XAACS14-VFD  | 14       | 3 x 18          | 0.045                | 1.1                  | 0.363 | 9.2               | 0.453 | 11.5        | 0.735 | 18.7       | 241  | 359          | 102   | 46                  | 8.8  | 224             | 25  |          |
| T1XAACS12-VFD  | 12       | 3 x 16          | 0.045                | 1.1                  | 0.399 | 10.1              | 0.489 | 12.4        | 0.771 | 19.6       | 289  | 430          | 156   | 71                  | 9.3  | 235             | 30  |          |
| T1XAACS10-VFD  | 10       | 3 x 14          | 0.045                | 1.1                  | 0.449 | 11.4              | 0.569 | 14.4        | 0.851 | 21.6       | 385  | 573          | 249   | 113                 | 10.2 | 259             | 40  |          |
| T1XAACS8-VFD   | 8        | 3 x 14          | 0.045                | 1.1                  | 0.492 | 12.5              | 0.612 | 15.5        | 0.894 | 22.7       | 483  | 718          | 454   | 206                 | 10.7 | 272             | 55  |          |
| T1XAACS6-VFD   | 6        | 3 x 12          | 0.060                | 1.5                  | 0.631 | 16.0              | 0.751 | 19.1        | 1.065 | 27.1       | 654  | 974          | 629   | 285                 | 12.8 | 325             | 75  |          |
| T1XAACS4-VFD   | 4        | 3 x 12          | 0.060                | 1.5                  | 0.752 | 19.1              | 0.912 | 23.2        | 1.226 | 31.1       | 904  | 1345         | 1001  | 454                 | 14.7 | 374             | 95  |          |
| T1XAACS3-VFD   | 3        | 3 x 10          | 0.060                | 1.5                  | 0.810 | 20.6              | 0.970 | 24.6        | 1.304 | 33.1       | 1130 | 1682         | 1263  | 573                 | 15.6 | 397             | 115 |          |
| T1XAACS2-VFD   | 2        | 3 x 10          | 0.060                | 1.5                  | 0.876 | 22.3              | 1.036 | 26.3        | 1.370 | 34.8       | 1299 | 1934         | 1594  | 723                 | 16.4 | 418             | 130 |          |
| T1XAACS1-VFD   | 1        | 3 x 10          | 0.080                | 2.0                  | 1.005 | 25.5              | 1.165 | 29.6        | 1.554 | 39.5       | 1575 | 2344         | 2010  | 912                 | 18.7 | 474             | 145 |          |
| T1XAACS1/0-VFD | 1/0      | 3 x 10          | 0.080                | 2.0                  | 1.076 | 27.3              | 1.236 | 31.4        | 1.641 | 41.7       | 1870 | 2783         | 2531  | 1148                | 19.7 | 500             | 170 |          |
| T1XAACS2/0-VFD | 2/0      | 3 x 10          | 0.080                | 2.0                  | 1.165 | 29.6              | 1.325 | 33.6        | 1.730 | 43.9       | 2171 | 3230         | 3195  | 1449                | 20.8 | 527             | 195 |          |
| T1XAACS3/0-VFD | 3/0      | 3 x 8           | 0.080                | 2.0                  | 1.255 | 31.9              | 1.415 | 35.9        | 1.820 | 46.2       | 2638 | 3926         | 4029  | 1828                | 21.8 | 555             | 225 |          |
| T1XAACS4/0-VFD | 4/0      | 3 x 8           | 0.080                | 2.0                  | 1.397 | 35.5              | 1.557 | 39.5        | 1.962 | 49.8       | 3145 | 4680         | 5075  | 2302                | 23.5 | 598             | 260 |          |
| T1XAACS250-VFD | 250      | 3 x 8           | 0.090                | 2.3                  | 1.558 | 39.6              | 1.778 | 45.2        | 2.208 | 56.1       | 3827 | 5696         | 6000  | 2722                | 26.5 | 673             | 290 |          |
| T1XAACS350-VFD | 350      | 3 x 6           | 0.090                | 2.3                  | 1.795 | 45.6              | 2.004 | 50.9        | 2.554 | 64.9       | 5229 | 7781         | 8407  | 3813                | 30.6 | 778             | 350 |          |
| T1XAACS500-VFD | 500      | 3 x 6           | 0.090                | 2.3                  | 2.061 | 52.4              | 2.281 | 57.9        | 2.831 | 71.9       | 6909 | 10282        | 11990 | 5439                | 34.0 | 863             | 430 |          |
| T1XAACS750-VFD | 750      | 3 x 6           | 0.090                | 2.3                  | 2.533 | 64.3              | 2.629 | 66.8        | 3.193 | 81.1       | 9856 | 14668        | 18005 | 8167                | 38.3 | 973             | 535 |          |

Ampacity values based on CE Code Part I 2024, Table 2. Correction factors may apply. Dimensions and weights are nominal and subject to change without notice.

### Specifications and Compliances

- CSA C22.2 No. 131 (Type TECK90)
- CSA C22.2 No. 38, Thermoset-insulated wires and cables (Type RW90)
- CSA C22.2 No. 174, Cables and cable glands for use in hazardous locations (HL)
- CSA C22.2 No. 2556 FT4, UL 1685 Vertical-Tray Flame Test
- IEEE 383 & 1202, ICEA T-30-520 (70,000 BTU/hr) Vertical Flame Test rated
- -40°C Cold Bend and -40°C Cold Impact
- Sunlight Resistant, SUN RES and Low Acid Gas, AG14

|                   |  |
|-------------------|--|
| <b>Conductor</b>  | Stranded Soft Copper, ASTM B8                                      |
| <b>Insulation</b> | Cross-linked Polyethylene (XLPE)<br>CSA Type XL 90°C dry/wet 1000V |
| <b>Shielding</b>  | Helically Applied Bare Copper Tape                                 |
| <b>Bonding</b>    | Tri-Sectional Stranded Bare Soft Copper,<br>ASTM B8                |

**Armour** Aluminum (AIA) or Galvanized Steel (SIA) Interlock Armour

**Jacket** Low Acid Gas Polyvinyl Chloride (PVC) Inner and Outer Jackets

**Colour Code** Black, Red & Blue or Black with White Numbers

### Applications

- For use in raceways, ventilated, non-ventilated and ladder-type cable trays.
- For dry, damp or wet locations, in ceiling air-handling plenums, direct burial, exposed and concealed wiring.
- Approved for all Hazardous Locations (HL) as per CE Code Part I 2024 Section 18, when installed with approved connectors.
- For use with variable frequency drives requiring precise motor control and energy efficiency. Designed to manage high-frequency voltage spikes, electromagnetic interference (EMI) and harmonic distortion.

### CUSTOM ORDER OPTIONS



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