

# Auto-Flex® TC Power Cable

Flexible Tray Rated Power Supply Cable Multiconductor / Thermoset Jacket

2000V



## APPLICATIONS:

AUTO-FLEX® TC tray rated power supply cable is designed and manufactured for use as a power supply cable from a welding timer or controller to the base of a robot in a resistance welding application. The cable provides a flexible tray rated solution that enhances the ease of installation when compared to standard tray cable. This cable can be used in many applications where flexibility is required and is suitable for use in exposed runs in accordance with the NEC.

## SPECIFICATIONS & RATINGS:

- UL 1277 TypeTC-ER
- UL 44 Type RHW - 2 conductors
- ANSI/NEMA WC70 ICEA S-95-658
- Direct burial and sunlight resistant
- CSA AWM I/II A/B FT4

## OPTIONS:

- 600 VOLT
- Shielded

## DESIGN PARAMETERS:

### Conductors:

Class K stranded, soft-drawn bare copper, per ASTM B-3 and ASTM B-172.

### Insulation:

Heat and moisture-resistant, thermosetting crosslinked polyethylene meeting the requirements of ANSI/NEMA WC70 ICEA S-95-658. The insulation is acceptable for use in wet or dry locations at 90° C. The insulation thickness is in accordance with Table 17 of UL 44.

### Jacket:

Heat, moisture and sunlight resistant thermoset jacket, meeting the requirements of ANSI/NEMA WC70 ICEA S-95-658. The jacket thickness is in accordance with Table 12.3 of UL 1277.

| Part Number | Conductor Number | Conductor Size | Stranding | Nominal Cable O.D. in (mm) | TC Ampacity <sup>1</sup> | Minimum Bend Diameter in (mm) | Approximate Cable Weight Lbs/Mft (Kg/Km) |
|-------------|------------------|----------------|-----------|----------------------------|--------------------------|-------------------------------|------------------------------------------|
| 031245BK    | 3                | 8 AWG          | 168/30    | .845 (21.5)                | 55                       | 7 (178)                       | 405 (602)                                |
| 031237BK    | 4                | 8 AWG          | 168/30    | .970 (24.6)                | 44                       | 8 (203)                       | 547 (814)                                |
| 031246BK    | 3                | 6 AWG          | 266/30    | .990 (25.1)                | 75                       | 8 (203)                       | 593 (882)                                |
| 031238BK    | 4                | 6 AWG          | 266/30    | 1.090 (27.7)               | 60                       | 11 (280)                      | 746 (1110)                               |
| 031247BK    | 3                | 4 AWG          | 413/30    | 1.110 (28.2)               | 95                       | 11 (280)                      | 795 (1183)                               |
| 031239BK    | 4                | 4 AWG          | 413/30    | 1.220 (31.0)               | 76                       | 12 (305)                      | 1009 (1501)                              |
| 031111BK    | 3                | 2 AWG          | 665/30    | 1.250 (31.8)               | 130                      | 13 (330)                      | 1115 (1659)                              |
| 031240BK    | 4                | 2 AWG          | 665/30    | 1.380 (35.1)               | 104                      | 14 (356)                      | 1429 (2126)                              |
| 031249BK    | 3                | 1/0 AWG        | 1045/30   | 1.535 (39.0)               | 170                      | 15 (381)                      | 1615 (2403)                              |
| 031241BK    | 4                | 1/0 AWG        | 1045/30   | 1.695 (43.1)               | 136                      | 17 (432)                      | 2088 (3107)                              |
| 031250BK    | 3                | 2/0 AWG        | 1323/30   | 1.690 (42.9)               | 195                      | 17 (432)                      | 2007 (2986)                              |
| 031242BK    | 4                | 2/0 AWG        | 1323/30   | 1.935 (49.1)               | 156                      | 19 (483)                      | 2727 (4058)                              |
| 031251BK    | 3                | 3/0 AWG        | 1672/30   | 1.845 (46.9)               | 225                      | 18 (457)                      | 2557 (3805)                              |
| 031243BK    | 4                | 3/0 AWG        | 1672/30   | 2.040 (51.8)               | 180                      | 24 (610)                      | 3287 (4891)                              |
| 031252BK    | 3                | 4/0 AWG        | 2107/30   | 2.085 (53.0)               | 260                      | 25 (635)                      | 3142 (4649)                              |
| 031244BK    | 4                | 4/0 AWG        | 2107/30   | 2.310 (58.7)               | 208                      | 28 (711)                      | 4048 (6023)                              |

<sup>1</sup>Ampacity based on single cable in free air 30° C ambient, 90° C conductor temperature.

The data herein is approximate and subject to normal manufacturing tolerances.

These specifications are subject to change without notice.



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