



# TRAY CABLE 600V

## Power, Unshielded, Method 4 Color Code

UL 44, UL 1277, ICEA-S-95-658/NEMA WC70

Power cable

### APPLICATIONS

- In free air, cable trays, raceways or direct burial
- In wet or dry locations
- Permitted for Exposed Run -TC-ER
- Other industrial applications



### CONSTRUCTION

|                        |   |
|------------------------|---|
| Conductors             | Tinned copper conductor in accordance with ASTM B-3, or ASTM B-33, class B in accordance with ASTM B-8.                                   |
| Insulation             | Thermosetting ethylene-propylene type EPCV compound.  |
| Colour code            | Per ICEA Method 4, all cores are black with printed numbers in contrasting ink.   |
| Ground                 | Uninsulated bare or tinned copper, class B stranding per ASTM B-8 or ASTM B-33.   |
| Core arrangement       | Insulated power conductors are assembled round together with uninsulated ground conductor and rubber fillers placed into the interstices. |
| Separator              | Synthetic tape over core of cable.  |
| Outer jacket           | Heavy duty flame retardant thermosetting chlorinated polyethylene (CPE).  |
| Colour of outer jacket | Black.  |
| Test voltage           | According to tab 14.1-UL 1277.  |

### Features

|   |  |
|---|--|
| Excellent flame resistant: FT4 UL 1685                | Excellent resistance to crush, compression cuts and heat deformation |
| Maximum conductor temperature: 90°C                   | Moisture, water, weather, sunlight resistant                         |
| Excellent physical, thermal and electrical properties | Minimum bending radius: D- overall diameter of cable                 |
| Excellent resistant to a low temperature: - 40°C      | D < 25mm   4 x D   |
| Meets cold bend test at -25°C                         | 25mm < D < 50mm   5 x D  |
| Oil resistant: UL 1277                                | D > 50mm   6 x D   |
| Ozone resistant: EN 60811-403, method A               | All materials comply with ROHS and REACH declarations                |

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## Approvals

UL: E310468

Example of marking  
Ink jet printed

TF CABLE (UL) E310468 FLEXTREME TC TYPE TC-ER XHHW-2 cdrs 600V 3/C 8AWG +1/C 10AWG GRD  
90°C (194F) wet or dry Sun Res Oil Res I & II FT4 -40°C dir bur + footage marking

| Number of conductors | ConductorSize | Conductorstranding | Groundwiresize | Nominal insulation thickness | Nominal jacket thickness | Approx. O.D. | Approx. weight |
|----------------------|---------------|--------------------|----------------|------------------------------|--------------------------|--------------|----------------|
| N                    | AWG           | N                  | AWG            | mils                         | mils                     | inch         | LBS/1000ft     |
| 3                    | 8             | 7                  | 10             | 45                           | 60                       | 0,64         | 349            |
| 4                    | 8             | 7                  | 10             | 45                           | 60                       | 0,7          | 427            |
| 3                    | 6             | 7                  | 8              | 45                           | 60                       | 0,72         | 497            |
| 4                    | 6             | 7                  | 8              | 45                           | 60                       | 0,79         | 614            |
| 3                    | 4             | 7                  | 8              | 45                           | 80                       | 0,87         | 726            |
| 4                    | 4             | 7                  | 8              | 45                           | 80                       | 0,95         | 904            |
| 3                    | 2             | 7                  | 6              | 45                           | 80                       | 1            | 1048           |
| 4                    | 2             | 7                  | 6              | 45                           | 80                       | 1,09         | 1310           |
| 4                    | 1             | 19                 | 6              | 55                           | 80                       | 1,24         | 1638           |
| 3                    | 1             | 19                 | 6              | 55                           | 80                       | 1,13         | 1303           |
| 3                    | 1/0           | 19                 | 6              | 55                           | 80                       | 1,2          | 1557           |
| 4                    | 1/0           | 19                 | 6              | 55                           | 80                       | 1,32         | 1968           |
| 3                    | 2/0           | 19                 | 6              | 55                           | 80                       | 1,3          | 1879           |
| 4                    | 2/0           | 19                 | 6              | 55                           | 80                       | 1,43         | 2387           |

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|----------------------|---------------|--------------------|----------------|------------------------------|--------------------------|--------------|----------------|
| N                    | AWG           | N                  | AWG            | mils                         | mils                     | inch         | LBS/1000ft     |
| 3                    | 3/0           | 19                 | 4              | 55                           | 80                       | 1,42         | 2344           |
| 4                    | 3/0           | 19                 | 4              | 55                           | 80                       | 1,57         | 2974           |
| 3                    | 4/0           | 19                 | 4              | 55                           | 80                       | 1,56         | 2863           |
| 4                    | 4/0           | 19                 | 4              | 55                           | 110                      | 1,79         | 3747           |
| 3                    | 250           | 37                 | 4              | 65                           | 110                      | 1,75         | 3460           |
| 4                    | 250           | 37                 | 4              | 65                           | 110                      | 1,94         | 4404           |
| 3                    | 350           | 37                 | 3              | 65                           | 110                      | 1,98         | 4648           |
| 4                    | 350           | 37                 | 3              | 65                           | 110                      | 2,19         | 5950           |
| 3                    | 500           | 37                 | 2              | 65                           | 110                      | 2,3          | 5870           |
| 4                    | 500           | 37                 | 2              | 65                           | 110                      | 2,54         | 7672           |
| 3                    | 750           | 61                 | 1              | 80                           | 110                      | 2,82         | 8734           |

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