



# 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	EPR type EPCV compound fulfilling type XHHW-2 (rating VW-1)
Colour code	Per ICEA Method 4, all cores are black with printed numbers in contrasting ink.
Ground	Uninsulated tinned copper, class B stranding per ASTM B-8or 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	CPE - Heavy duty flame retardant thermosetting chlorinated polyethylene.
Colour of outerjacket	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 EPR/CPE 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	Conductor Size	Conductor stranding	Ground wire size	Nominal insulation thickness	Nominal jacket thickness	Approx. O.D.	Approx. weight	Ampacity at 30°C ambient temp.1)
N	AWG	N	AWG	mils	mils	inch	LBS/1000ft	A
3	8	7	10	45	60	0,64	349	55
4	8	7	10	45	60	0,7	427	55
3	6	7	8	45	60	0,72	497	75
4	6	7	8	45	60	0,79	614	75
3	4	7	8	45	80	0,87	726	95
4	4	7	8	45	80	0,95	904	95
3	2	7	6	45	80	1	1048	130
4	2	7	6	45	80	1,09	1310	130
4	1	19	6	55	80	1,24	1638	145
3	1	19	6	55	80	1,13	1303	145
3	1/0	19	6	55	80	1,2	1557	170
4	1/0	19	6	55	80	1,32	1968	170
3	2/0	19	6	55	80	1,3	1879	195
4	2/0	19	6	55	80	1,43	2387	195

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Number of conductors	Conductor Size	Conductor stranding	Ground wire size	Nominal insulation thickness	Nominal jacket thickness	Approx. O.D.	Approx. weight	Ampacity at 30°C ambient temp.1)
N	AWG	N	AWG	mils	mils	inch	LBS/1000ft	A
3	3/0	19	4	55	80	1,42	2344	225
4	3/0	19	4	55	80	1,57	2974	225
3	4/0	19	4	55	80	1,56	2863	260
4	4/0	19	4	55	110	1,79	3747	260
3	250	37	4	65	110	1,75	3460	290
4	250	37	4	65	110	1,94	4404	290
3	350	37	3	65	110	1,98	4648	350
4	350	37	3	65	110	2,19	5950	350
3	500	37	2	65	110	2,3	5870	430
4	500	37	2	65	110	2,54	7672	430
3	750	61	1	80	110	2,82	8734	353

1) Ampacities based on Table 310.16 of the National Electrical Code ed. 2020 for 90°C rated conductors, 30°C ambient temperature for Insulated Conductors with Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried)

## Adjustment Factors for More Than Three Current-Carrying Conductors

Number of Conductors	Percent of Values in tab. 310.16 per NEC
4-6	80
7-9	70
10-20	50
21-30	45
31-40	40
41 and above	35

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