



TRAY CABLE 600V

Control, Unshielded, E-1 or E-2 Color Code

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

Control 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.
Colour code	Per ICEA Method 1 Table E-1* or Method 1Table E-2 *) For more than 21 conductors the color sequence be repeated as necessary.
Ground	Insulated bare or tinned copper, class B stranding per ASTM B-8or ASTM B-33.
Core arrangement	Insulated conductors are assembled round together. If needed rubber fillers can be used in interstices for selected constructions.
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 < 1 in. 4 x D
Meets cold bend test at -25°C	1 in. < D < 2 in. 5 x D
Oil resistant: UL 1277	D > 2 in. 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 14AWG 90°C (194F) wet or dry
Sun Res Oil Res I & II FT4 -40°C dir bur + footage marking

14AWG

Number of conductors	Conductor Size	Conductor stranding	Nominal insulation thickness	Nominal jacket thickness	Approx. O.D.	Approx. weight
N	AWG	N	mils	mils	inch	LBS/1000ft
2	14	7	30	55	0,4	90
3	14	7	30	55	0,4	109
4	14	7	30	55	0,4	134
5	14	7	30	55	0,5	161
7	14	7	30	70	0,6	236
9	14	7	30	70	0,7	306
12	14	7	30	70	0,7	343
19	14	7	30	90	0,9	557
25	14	7	30	90	1	687
30	14	7	30	90	1	789
37	14	7	30	90	1,2	969

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12AWG

Number of conductors	Conductor Size	Conductor stranding	Nominal insulation thickness	Nominal jacket thickness	Approx. O.D.	Approx. weight
N	AWG	N	mils	mils	inch	LBS/1000ft
2	12	7	30	55	0,42	115
3	12	7	30	55	0,44	141
4	12	7	30	55	0,48	175
5	12	7	30	55	0,52	212
7	12	7	30	70	0,64	310
9	12	7	30	70	0,74	403
12	12	7	30	70	0,77	458
19	12	7	30	90	0,99	741
25	12	7	30	90	1,12	921
30	12	7	30	90	1,15	1064
37	12	7	30	90	1,29	1308

12AWG

Number of conductors	Conductor Size	Conductor stranding	Nominal insulation thickness	Nominal jacket thickness	Approx. O.D.	Approx. weight
N	AWG	N	mils	mils	inch	LBS/1000ft
2	10	7	30	55	0,47	156
3	10	7	30	55	0,49	194
4	10	7	30	70	0,57	258
5	10	7	30	70	0,62	313
7	10	7	30	70	0,72	431
9	10	7	30	70	0,83	563
12	10	7	30	90	0,91	682