

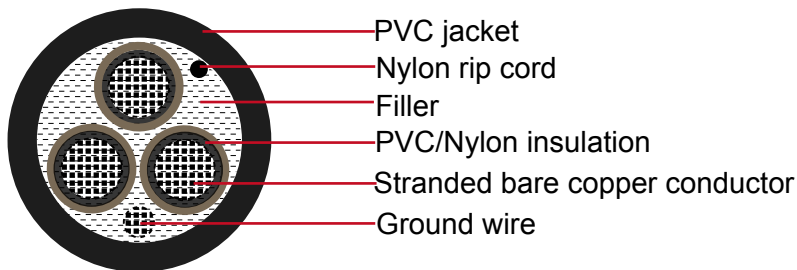


THHN/THWN, 600V, Type TC Power Cable

Applications:

THHN/PVC, type TC Power Cable is used to supply power to motors, or for connection to other power devices in industrial settings. Primary installations include cable trays, raceways, and outdoor locations where supported by a messenger wire. Type TC Power Cable is listed for direct burial and for use in Class 1, Division 2 hazardous locations and Class 1 control circuits. This cable may be used at temperatures not to exceed 75°C in wet locations and 90°C in dry locations.

Construction:



Conductor:

Soft annealed bare copper, Class B stranding per ASTM B8

Insulation:

Polyvinyl chloride (PVC) insulation over with a nylon (polyamide) jacket applied

Ground Wire:

Soft annealed bare copper, Class B stranding per ASTM B8

Assembly:

Three or more conductors will be cabled round with fillers and a nylon rip cord is put under the jacket for ease of stripping

Jacket:

Heat, moisture and sunlight resistant PVC(LSOH is available upon request)

Color:

upon request, black is preferable



American Standard UL

Compliances:

- ▶ UL 1277 - Electrical Power and Control Tray Cables
- ▶ ICEA S-58-679 - Control Cable Conductor Identification. Method 4
- ▶ UL 1685 - UL CT Flame Exposure Test (70,000 Btu/hr)
- ▶ ICEA T-29-520 - Vertical Cable Tray Flame Test (210,000 Btu/hr)
- ▶ IEEE 1202/FT4 - Flaming Test of Cables for Use in Cable Tray in Industrial and Commercial Occupancies (70,000 Btu/hr)
- ▶ ICEA S-95-658 (NEMA WC 70) construction requirements

Parameters:

AWG or kcmil	Strand	Ground Wire Size AWG	Nominal jacket thickness Inch/mm		Nominal Overall Diameter Inch/mm		Cable weight Lbs/kft kg/km	
3 conductors								
8	7	10	0.060	1.52	0.625	15.88	295	440
6	7	8	0.060	1.52	0.710	18.03	435	647
4	7	8	0.060	1.52	0.795	20.19	606	902
2	7	6	0.080	2.03	0.958	24.33	942	1401
1	19	6	0.080	2.03	1.100	27.94	1195	1779
1/0	19	6	0.080	2.03	1.184	30.07	1445	2150
2/0	19	6	0.080	2.03	1.281	32.54	1734	2579
3/0	19	4	0.080	2.03	1.391	35.33	2163	3218
4/0	19	4	0.080	2.03	1.508	38.30	2617	3894
250	37	4	0.080	2.03	1.659	42.14	3070	4568
350	37	3	0.110	2.79	1.942	49.33	4276	6363
500	37	2	0.110	2.79	2.220	56.39	5906	8788
750	61	1	0.110	2.79	2.652	67.36	8609	12811
4 conductors								
8	7	10	0.060	1.52	0.685	17.40	369	548
6	7	8	0.060	1.52	0.780	19.81	549	817
4	7	8	0.080	2.03	0.914	23.22	808	1202
2	7	6	0.080	2.03	1.052	26.72	1197	1782
1	19	6	0.080	2.03	1.210	30.73	1532	2280
1/0	19	6	0.080	2.03	1.304	33.12	1838	2734
2/0	19	6	0.080	2.03	1.413	35.89	2238	3330
3/0	19	4	0.080	2.03	1.536	39.01	2782	4139
4/0	19	4	0.110	2.79	1.726	43.84	3477	5173
250	37	4	0.110	2.79	1.895	48.13	4095	6093
350	37	3	0.110	2.79	2.144	54.46	5530	8228
500	37	2	0.110	2.79	2.455	62.36	7652	11386
750	61	1	0.140	3.56	2.998	76.15	11365	16911