

THW/THW-2

Application and Description

The THW conductor is suitable for most current wiring solutions for residential, commercial and industrial environments. It is used in service entrance, feeders and branch circuits for permanent installations. THW conductors in sizes 14 AWG to 1000 Kcmil (MCM) can be installed in conduits and other raceways. The temperature of installation shall not exceed 75°C(THW), not exceed 90°C(THW-2).

Standard and Approval

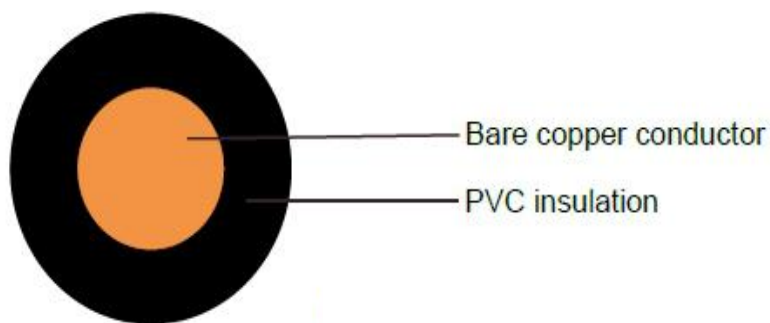
- ▶ ASTM B3, B8
- ▶ UL 83 - Thermoplastic-Insulated Wires and Cables
- ▶ UL 1581 - Electrical Wires, Cables and Flexible Cords

Cable Construction

Conductor: Bare annealed copper conductor, solid or stranded

Insulation: PVC 75° C insulation

Color: upon request, black is preferable



Cable Parameter

AWG or kcmil	Strand	Nominal Insulation Thickness Inch/mm		Nominal Overall Diameter Inch/mm		Cable Weight Lbs/kft kg/km	
14	1	0.030	0.76	0.169	4.3	22	33
12	1	0.030	0.76	0.189	4.8	32	47
10	1	0.030	0.76	0.213	5.4	46	68
8	1	0.045	1.14	0.240	6.1	67	100
6	1	0.060	1.52	0.276	7	101	151
14	7	0.030	0.76	0.177	4.5	24	36
12	7	0.030	0.76	0.201	5.1	34	50
10	7	0.030	0.76	0.228	5.8	49	73
8	7	0.045	1.14	0.291	7.4	79	118
6	7	0.060	1.52	0.335	8.5	117	174
4	7	0.060	1.52	0.386	9.8	172	256
2	7	0.080	2.03	0.445	11.3	263	391
1	19	0.080	2.03	0.531	13.5	339	505
1/0	19	0.080	2.03	0.575	14.6	418	622
2/0	19	0.080	2.03	0.622	15.8	515	767
3/0	19	0.080	2.03	0.677	17.2	638	950
4/0	37	0.080	2.03	0.740	18.8	792	1179
250	37	0.095	2.41	0.823	20.9	943	1404
300	37	0.095	2.41	0.882	22.4	1118	1664
350	37	0.095	2.41	0.937	23.8	1292	1923
400	37	0.095	2.41	0.984	25	1465	2180
500	61	0.095	2.41	1.079	27.4	1810	2694
600	61	0.110	2.79	1.197	30.4	2178	3241
700	61	0.110	2.79	1.272	32.3	2521	3751
750	61	0.110	2.79	1.307	33.2	2693	4007
800	61	0.110	2.79	1.343	34.1	2863	4260
900	61	0.110	2.79	1.409	35.8	3205	4769
1000	61	0.110	2.79	1.472	37.4	3538	5265