

**600 Volts. Copper Conductor
Thermoplastic Insulation
Heat, Moisture, Gasoline, and Oil Resistant¹**



APPLICATIONS

Southwire Type THW-2 conductors are primarily used in conduit or other recognized raceways for services, feeders, and branch wiring, as specified in the National Electrical Code¹. THW-2 conductors may be used in wet or dry locations at temperatures not to exceed 90 °C. Voltage rating for THW-2 conductors is 600 volts.

SPECIFICATIONS

Southwire Type THW-2 meets or exceeds all applicable ASTM specifications, UL Standard 83, Federal Specification A-A-59544, and requirements of the National Electrical Code.

CONSTRUCTION

Southwire Type THW-2 copper conductors are annealed (soft) copper, insulated with a tough heat and moisture resistant polyvinyl chloride (PVC). Available in black with other colors subject to special inquiry.

¹ Oil and gasoline resistant I as defined by Underwriters Laboratories.

² 2008 Edition.

CU THW

Conductor		Insulation Thickness (mils)	Nominal O.D. (mils)	Approx. Net Weight Per 1000 ft. (lbs.)	Allowable Ampacities+			Standard Package
Size (AWG or kcmil)	Num. Strands				60 °C	75 °C	90 °C	
14	7	30	131	19	15	15	15	DNF
12	7	30	149	27	20	20	20	DNF
10	7	30	173	41	30	30	30	DQF
8	7	60	262	74	40	50	55	EP
6	7	60	299	108	55	65	75	EP
4	7	60	345	161	70	85	95	BG
3	7	60	372	198	85	100	110	BG
2	7	60	403	243	95	115	130	BG
1	19	80	482	319	110	130	150	B
1/0	19	80	522	392	125	150	170	B
2/0	19	80	566	484	145	175	195	B
3/0	19	80	616	598	165	200	225	B
4/0	19	80	672	742	195	230	260	B
250	37	95	748	888	215	255	290	B
300	37	95	801	1052	240	285	320	B
350	37	95	851	1215	260	310	350	B
400	37	95	896	1377	280	335	380	B
500	37	95	979	1701	320	380	430	B
600	61	110	1086	2054	355	420	475	C
700	61	110	1155	2376	395	460	515	C
750	61	110	1188	2538	400	475	535	C
1000	61	110	1337	3340	455	545	615	C

RECOMMENDED SAMPLE SPECIFICATIONS:

Conductors shall be UL-listed Type THW-2, suitable for operation at 600 volts in wet or dry locations as specified in the National Electrical Code. Conductors shall be UL approved heat and moisture-resistant PVC insulated annealed copper as manufactured by Southwire Company or approved equal.



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