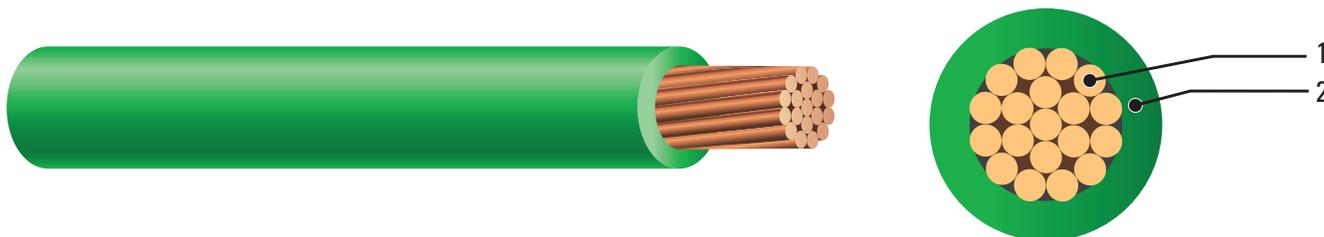


## TW75 600V 75°C

Copper Conductors, 600V, Thermoplastic Sunlight Resistant Insulation, All Sizes Rated TW75



### CONSTRUCTION:

Southwire's TW75 cables are manufactured with annealed (soft) copper conductor and a tough, heat, moisture and sunlight-resistant thermoplastic polyvinyl chloride (PVC) insulation in all colours. Sizes No. 14 AWG through No. 4/0 AWG stranded conductors are manufactured using combination unilay stranding. All other stranded sizes are manufactured using compressed stranding.

1. Copper Conductor
2. PVC Jacket

### CONDUCTOR COLOURS:



- Construction is available in black, white, red, blue, green, yellow, brown, orange and gray. Some colours are subject to minimum order quantity.

### APPLICATIONS & FEATURES:

Southwire's TW75 cables are primarily intended for installation in conduit (raceways) or as exposed wiring in dry or damp locations. The maximum voltage rating for all intended applications is 600 Volts. Consult the Canadian Electrical Code Part 1 for further information related to applications. Allowable temperatures are as follows:

- Dry locations not to exceed 75°C
- Wet or damp locations not to exceed 75°C
- Installation and handling low temperature is limited to -10°C
- Continuous low operating temperature is limited to -25°C

### SPECIFICATIONS:

Southwire's TW75 cables meet or exceed the following requirements:

- ASTM B3, B8 and B787
- CSA Standard C22.2 No. 75 File Listing: LL90458
- -25°C Cold Bend Test Compliant
- CSA FT1 flame test rating
- CSA and c(UL) listed



## SPECIFICATIONS

Conductor		Insulation Thickness		Cable Diameter		Approx. Weight		Allowable Ampacity (Amps) 30°C Ambient*	
Size (AWG or kcmil)	# of Strands	inches	mm	inches	mm	lb/1000ft	kg/km	60°C	75°C
14**	1	0.030	0.76	0.124	3.15	18.3	27.2	15	20
12**	1	0.030	0.76	0.140	3.56	25.8	38.4	20	25
10**	1	0.030	0.76	0.162	4.11	38.6	57.4	30	35
14**	7	0.030	0.76	0.133	3.41	19.1	28.4	15	20
12**	7	0.030	0.76	0.152	3.85	27.4	40.8	20	25
10**	7	0.030	0.76	0.174	4.42	41.2	61.3	30	35
14**	19	0.030	0.76	0.131	3.33	17.6	26.2	15	20
12**	19	0.030	0.76	0.150	3.81	26.9	40.0	20	25
10**	19	0.030	0.76	0.173	4.39	40.2	59.8	30	35
8	7	0.045	1.14	0.233	5.92	68.3	102	40	50
6	7	0.060	1.52	0.299	7.59	109.8	163	55	65
4	7	0.060	1.52	0.346	8.79	163.9	244	70	85
3	7	0.060	1.52	0.374	9.50	200.7	299	85	100
2	7	0.060	1.52	0.406	10.3	247.6	369	95	115
1	19	0.080	2.03	0.480	12.2	317.0	472	110	130
1/0	19	0.080	2.03	0.520	13.2	393.2	585	125	150
2/0	19	0.080	2.03	0.564	14.3	486.3	724	145	175
3/0	19	0.080	2.03	0.614	15.6	600.9	894	165	200
4/0	19	0.080	2.03	0.670	17.0	746.8	1111	195	230
250	37	0.095	2.41	0.748	19.0	887.7	1321	215	255
300	37	0.095	2.41	0.810	20.6	1056	1572	240	285
350	37	0.095	2.41	0.851	21.6	1196	1780	260	310
400	37	0.095	2.41	0.910	22.9	1385	2061	280	335
500	37	0.095	2.41	0.980	24.9	1704	2536	320	380

\* Allowable ampacities are for general use as specified by the Canadian Electrical Code, Part 1, 2015, Table 2

\*\* For these size conductors, the ampacities must be in compliance with rule 14-104(2) of the 2015 Canadian Electrical Code, Part 1