

Type TC Control Cable

600 Volt Copper Conductors

(VW-1) FR-XLP Insulated Singles

Overall SOLONON® Jacket

Heat, Moisture and Sunlight Resistant

# TYPE TC CONTROL CABLE XHHW-SOLONON® JACKET

## APPLICATIONS Suitable for use as follows:

Southwire's Type TC Control Cable is for use in industrial power or control circuits where small diameter, flame retardant cables are desired. Primary installations include cable trays, raceways and outdoor locations where supported by a messenger wire. Type TC Control Cable is also listed for direct burial and for use in Class 1, Division 2 hazardous locations and Class 1 control circuits. Constructions with 3 or more conductors are listed for exposed runs (TC-ER) per NEC® 336.10. Conductors may be used in wet or dry locations at temperatures not to exceed 90°C.

## SPECIFICATIONS

Southwire's Type TC Control Cable meets or exceeds the applicable requirements of the following standards and specifications:

- ASTM (All applicable standards)
- UL 1277 Electrical Power and Control Tray Cables
- UL 1581 Electrical Wires, Cables and Flexible Cords
- ICEA S-58-679 Control Cable Conductor Identification. (Method 1, Table 2 colored compounds with tracer colors excluding white and green)
- UL 1685 UL Flame Exposure Test (70,000 BTU/hr)
- ICEA T-29-520 Vertical Cable Tray Flame Test (210,000 BTU/hr)
- IEEE 1202 Flame Testing of Cables for Use in Cable Tray in Industrial and Commercial Occupancies (70,000 BTU/hr)
- ICEA S-95-658 (NEMA WC 70) Nonshielded 0 2 kV Cables, with testing frequencies based on UL requirements
- RoHS Compliant

## CONSTRUCTION

Southwire's Type TC Control Cable is available in sizes 14 AWG through 10 AWG, with multiconductor constructions of 2 through 37 conductors. The product uses Type XHHW-2 rated VW-1 conductors. Individual conductors are bare annealed copper covered with a cross-linked polyethylene (XLP) insulation. The overall jacket consists of a flame retardant, moisture and sunlight resistant SOLONON. SOLONON is a low smoke, non-halogen, flame retardant polyethylene jacket.









		WEIGHTS, MEASUREMENTS AND PACKAGING								
NUMBER OF Conductors	JACKET THICKNESS	AVERAGE OVERALL DIAMETER		APPROXIMATE WEIGHT						
		inch	mm	lbs/1000 ft	kg/km					
		G 14 (7 STRANDS) TYPE		ORS						
2	.045	0.349	8.90	63	94					
3	.045	0.370	9.40	87	129					
3 w/ground	.045	0.403	10.2	106	157					
4	.045	0.403	10.2	106	157					
4 w/ground	.045	0.440	11.2	125	186					
5	.045	0.440	11.2	125	186					
6	.045	0.479	12.2	146	218					
7	.045	0.479	12.2	164	245					
<u>8</u> 9	.060	0.549 0.588	13.9 14.9	201 223	299 332					
10	.060	0.588	14.9	247	367					
12	.060	0.659	16.7	285	424					
15	.060	0.659	18.6	347	517					
19	.060	0.768	19.5	424	630					
20	.060	0.768	20.5	446	664					
25	.080	0.938	23.8	582	866					
30	.080	0.991	25.2	680	1012					
37	.080	1.067	27.1	818	1217					
<u> </u>		G 12 (7 STRANDS) TYPE			121,					
2	.045	0.384	9.80	85	127					
3	.045	0.408	10.4	115	172					
3 w/ground	.045	0.445	11.3	147	219					
4	.045	0.445	11.3	147	219					
4 w/ground	.045	0.487	12.4	171	255					
5	.045	0.487	12.4	171	255					
6	.060	0.562	14.3	217	323					
7	.060	0.562	14.3	244	363					
8	.060	0.607	15.4	275	410					
9	.060	0.651	16.5	307	457					
10	.060	0.709	18.0	340	506					
12	.060	0.732	18.6	396	589					
15	.060	0.813	20.7	484	721					
19	.080	0.896	22.8	628	934					
20	.080	0.942	23.9	661	984					
25	.080	1.043	26.5	811	1207					
30	.080	1.104	28.0	953	1418					
37	.080	1.190	30.2	1152	1714					
		G 10 (7 STRANDS) TYPE								
2	.045	0.431	11.0	116	172					
3	.045	0.459	11.7	161	239					
3 w/ground	.045	0.502	12.8	205	306					
4	.045	0.502	12.8	205	306					
4 w/ground	.060	0.581	14.8	260	387					
5	.060	0.581	14.8	260	387					
6	.060	0.632	16.1	306	455					
7	.060	0.632	16.1	346	514					
8	.060	0.685	17.4	392	583					
9	.060	0.736	18.7	437	651					
10	.060	0.803	20.4	485	721					
12	.080	0.870	22.1	599	892					
15	.080	0.964	24.5	733	1091					
19	.080	1.014	25.7	901	1340					
20	.080	1.066	27.1	949	1412					
25	.080	1.184	30.1	1168	1739					
30	.080	1.254	31.9	1379	2052					

Southwire offers three and four conductor cables in sizes AWG 14, 12, 10, with a green insulated ground wire using ICEA color code Method 1, Table 2.



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