

# T90 High Speed (HS)

PVC, Low-Voltage Power

600 V, CSA Type T90/TWN75, Single Conductor, Copper

## Product Construction:

### Conductor:

- 14 AWG thru 10 AWG stranded bare annealed copper
- 8 AWG thru 500 kcmil compressed stranded bare annealed copper
- 14 AWG thru 10 AWG solid plain copper

### Insulation:

- Color-coded premium-grade flame-retardant, heat- and moisture-resistant Polyvinyl Chloride (PVC)

### Jacket:

- Tough Polyamide (Nylon)

### Print:

#### For 14 AWG solid thru 10 AWG solid:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) HIGH SPEED THHN/THWN-2 (UL) E66903 SIZE AWG (SIZE MM<sup>2</sup>) GRI AND GRII 600 V VW-1 OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)

#### For 14 AWG strand thru 10 AWG strand:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) HIGH SPEED MTW OR THHN/THWN-2 (UL) SIZE AWG (SIZE MM<sup>2</sup>) GRI AND GRII 600 V VW-1 OR AWM OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)

#### For 8 AWG thru 500 kcmil, all colors:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) HIGH SPEED MTW OR THHN/THWN-2 (UL) (SIZE) AWG (SIZE MM<sup>2</sup>) GRI AND GRII 600 V VW-1 OR AWM OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)

#### For 8 AWG thru 500 kcmil, black only:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) HIGH SPEED MTW OR THHN/THWN-2 (UL) (SIZE) AWG (SIZE MM<sup>2</sup>) GRI AND GRII SUN RES 600 V VW-1 OR AWM OR T90 NYLON/TWN75 C(UL) FT1 (-25°C)



CATALOG NUMBER	CONDUCTOR SIZE		NO. OF WIRES	MIN. AVG. INSULATION THICKNESS		JACKET THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT		AMPACITY (1) 30°C AMBIENT	
	AWG/ kcmil	mm <sup>2</sup>		IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km	@75°C	@90°C
<b>14 AWG - 500 kcmil CONDUCTORS</b>															
100014	14	2.08	1	0.015	0.38	0.004	0.10	0.102	2.59	16	24	19	28	15	15
110014	14	2.08	19	0.015	0.38	0.004	0.10	0.109	2.77	13	19	16	24	15	15
100012	12	3.31	1	0.015	0.38	0.004	0.10	0.102	2.59	16	24	19	28	20	20
110012	12	3.31	19	0.015	0.38	0.004	0.10	0.130	3.30	20	30	24	36	20	20
100010	10	5.26	1	0.020	0.51	0.004	0.10	0.150	3.81	40	60	45	67	30	30
110010	10	5.26	19	0.020	0.51	0.004	0.10	0.161	4.09	32	48	38	57	30	30
210008	8	8.37	19	0.030	0.76	0.005	0.13	0.212	5.38	51	76	62	92	45	45
210006	6	13.3	19	0.030	0.76	0.005	0.13	0.248	6.30	81	121	94	140	65	65
210004	4	21.2	13-6	0.040	1.02	0.006	0.15	0.317	8.05	129	192	151	225	85	85
210003	3	26.7	13-6	0.040	1.02	0.006	0.15	0.344	8.74	163	243	189	281	100	105
210002	2	33.6	13-6	0.040	1.02	0.006	0.15	0.375	9.53	205	305	232	345	115	120
210001	1	42.4	13-6	0.050	1.27	0.007	0.18	0.427	10.85	258	384	296	440	130	140
310110	1/0	53.5	13-6	0.050	1.27	0.007	0.18	0.456	11.58	326	485	368	548	150	155
310210	2/0	67.4	13-6	0.050	1.27	0.007	0.18	0.509	12.93	411	612	457	680	175	185(2)
310310	3/0	85	13-6	0.050	1.27	0.007	0.18	0.557	14.15	518	771	570	848	200	210
310410	4/0	107	13-6	0.050	1.27	0.007	0.18	0.612	15.54	653	972	711	1058	230	235
310250	250	127	37	0.060	1.52	0.008	0.20	0.694	17.63	772	1149	850	1265	255	265
310300	300	152	37	0.060	1.52	0.008	0.20	0.747	18.97	926	1378	1011	1505	285	295
310350	350	177	37	0.060	1.52	0.008	0.20	0.797	20.24	1081	1609	1173	1746	310	325
310400	400	203	37	0.060	1.52	0.008	0.20	0.842	21.39	1235	1838	1334	1985	335	345
310500	500	253	37	0.060	1.52	0.008	0.20	0.925	23.50	1544	2298	1656	2464	380	395

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

\*\* Based on CEC Part 1 Table 2 Allowable ampacities for not more than three copper conductors in raceway or cable.

\*\*\* For 3-wire 120/240 V and 120/208 V service conductors for single dwellings, or for feeder conductors supplying single dwelling units of row housing of apartment and similar buildings, and sized in accordance with Rules 8-200 (1), 8-200 (2) (1), the allowable ampacity for sizes No. 6 and No. 2/0 AWG shall be 60A and 200A, respectively. In this case, the 5% adjustment of Rule 8-106 (1) can not be applied.

## Applications:

- For exposed or concealed wiring in dry or damp locations
- Maximum conductor temperature 90°C dry, 75°C wet and 60°C when exposed to oil
- For use in raceways in dry or damp locations
- Not cable tray rated

## Features:

- Rated at 90°C dry or damp locations, 75°C wet
- Rated Gasoline and Oil Resistant II
- Meets cold bend and cold impact tests at -25°C
- Suitable for installation at -10°C
- Sequential foot markings every 2 feet on 8 AWG and larger for easy measuring
- Sunlight-resistant for 8 AWG and larger, black only
- High Speed (HS) cable features a specially designed XLPE insulation that allows for fast and easy cable pulls

## Compliances:

- Industry Compliances:
  - c(UL) CSA Standard C22.2 No. 75
- Other Compliances:
  - RoHS Compliant

## Packaging:

- 14 AWG thru 10 AWG: 300 m reels
- 8 AWG thru 6 AWG: 300 m or 3,000 m reels
- 4 AWG thru 4/0: 300 m or 1,500 m reels
- 250 kcmil thru 500 kcmil: 900 m reels

## COLOR CODE CHART

COLOR CODE	COLOR
01	Black
02	White
03	Red
04	Orange
05	Yellow
06	Green
07	Blue
08	Brown

## PACKAGING CODE CHART

PACKAGING CODE	PACKAGING
95	300 Meters
60	600 Meters
97	900 Meters
98	1200 Meters
99	1500 Meters
90	3000 Meters
96	6000 Meters