



# POWER KABEL INC.

## T90 COPPER CONDUCTOR - 105°C

### APPLICATIONS & FEATURES

Type T90 building wire is intended for general purpose applications and may be installed in conduit, duct, or other recognized raceways in wet (60°C oil/90°C water) or dry (105°C) locations. For both new work and rewiring applications, the smaller diameter of wire permits additional circuits or larger conductors to be installed in the conduit without exceeding maximum fill limitations. The insulation is a high quality, heat and moisture resistant polyvinyl chloride compound over which a heat and light stabilized nylon jacket is tightly applied.

### INDUSTRY COMPLIANCES

- Rated at 60°C (oil) 90°C (water) in wet or 105°C in dry locations.
- VW-1, CT USE (1/0 and larger)
- Lead Free-ROHS Compliant
- CSA SPEC. C22.2, NO 75
- CUL-Type /T90 or TWN 75
- Cross-Linked Polyethylene (XLP) insulation per CSA SPEC C22.2.

### CONSTRUCTION

<b>CONDUCTORS:</b>	Stranded conductors uncoated copper ASTM B787 and ASTM B8
<b>INSULATION:</b>	High quality, heat and moisture resistant polyvinyl chloride compound over which a heat and light stabilized nylon jacket is tightly applied

AWG	NUMBER OF STRANDS	INSULATION THICKNESS (MILS)		APPROX. O.D. INCHES	AMPACITY		Approx. Net Wt. (Lbs/1000 ft)
		PVC	NYLON		75°C	90°C	
14	SOLID	15	4	0.11	20	25	16
12	SOLID	15	4	0.13	25	30	24
10	SOLID	20	4	0.16	30	40	37
14	19	15	4	0.11	20	25	17
12	19	15	4	0.13	25	30	25
10	19	20	4	0.16	35	35	39
8	19	30	5	0.21	50	55	65
6	19	30	5	0.27	65	75	98
4	19	40	6	0.34	85	95	157
3	19	40	6	0.36	100	110	191
2	19	40	6	0.4	115	130	240
1	19	50	7	0.46	130	150	305
1/0	19	50	7	0.5	150	170	379
2/0	19	50	7	0.55	175	195	470
3/0	19	50	7	0.6	200	225	584
4/0	19	50	7	0.66	230	260	728
250 MCM	37	60	8	0.73	255	290	866
300 MCM	37	60	8	0.78	285	320	1030
350 MCM	37	60	8	0.83	310	350	1193
400 MCM	37	60	8	0.88	335	380	1354
500 MCM	37	60	8	0.97	380	430	1679
600 MCM	61	70	9	1.07	420	475	2013
750 MCM	61	70	9	1.14	475	535	2498

Based on not more than 3 conductors in Raceway or cable or direct burial (30°C, 86°F Ambient per NEC). 75°C conductor temperature rating.  
 +The overcurrent protection for conductor types marked with (+) shall not exceed 15 AMPS for 14 AWG, and 20 AMPS for 12 AWG per the NEC-84 Table 310-16.