

# THHN, MTW, THWN, AWM T90 NYLON, TWN75 (cUL)

Thermoplastic Insulated, Nylon Sheathed  
Heat, Oil & Gasoline Resistant 600 Volt Copper

## DESCRIPTION:

Alan Wire Type THHN or THWN-2 conductors are primarily used in conduit as branch circuits in commercial or industrial applications, as specified by the National Electric Code. Type AWM or MTW conductors are primarily used as appliance or machine tool wiring, as specified by the National Electric Code. Type THHN or THWN-2 are available stranded in sizes 14 awg - 750 kcmil, and as solid in sizes 14-10 awg. Stranded sizes 14 awg - 750 kcmil are also rated as AWM or MTW. The conductors are soft-annealed, stranded or solid copper and are insulated with a tough heat and moisture resistant polyvinyl chloride (PVC), over which a nylon (polyimide) jacket is applied. Sizes #4 – 750MCM made with friction reducing nylon jacket to aid in the installation process.

## STANDARDS AND SPECIFICATIONS:

- 600V Rated
- UL 83, 1063, 758
- Sunlight Resistant
- VW-1 Rated
- Cable Tray Use 1/0 & Larger
- NEMA Publication No. WC70
- Gasoline & Oil Resistant II
- c(UL) On All Sizes
- ARRA 2009 Section 1605  
"Buy American" Compliant
- Available in low and high voltage colors

Conductor					Ampacity	
Size (AWG)	Stranding	PVC Insulation	Nylon Jacket	Nom. OD (Mils)	90° THHN/THWN-2	Approx Net WT./MFT
*14	Solid	15	4	102	15	16
*12	Solid	15	4	119	20	24
*10	Solid	20	4	150	30	37
14	19	15	4	112	15	16
12	19	15	4	131	20	24
10	19	20	4	165	30	37
8	19	30	5	218	55	64
6	19	30	5	256	75	96
4	19	40	6	325	95	155
3	19	40	6	388	130	235
2	19	40	6	388	130	235
1	19	50	7	437	150	300
1/0	19	50	7	477	170	370
2/0	19	50	7	521	195	465
3/0	19	50	7	571	225	570
4/0	19	50	7	627	260	720
250	37	60	8	711	290	850
300	37	60	8	766	320	1011
350	37	60	8	817	350	1172
400	37	60	8	864	380	1333
500	37	60	8	949	430	1653
600	61	70	9	1051	475	1985
750	61	70	9	1126	535	2462

\*Not suitable for MTW applications.



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