

THHN or THWN or MTW or T90 Nylon or TWN 75 • 14 AWG - 4/0 • 600 Volts



Gas and Oil Resistant

Maximum Conductor Temperatures and Voltage Rating:

TYPE	OIL	WET	DRY	VOLTAGE
THHN-THWN	75°C	75°C	90°C	600V
MTW	60°C	60°C	90°C	600V
AWM 1316 to 1321	80°C	—	105°C	600V
AWM 1408 to 1414	60°C	60°C	90°C	600V**
AWM 1452 to 1453*	80°C	—	90°C	1000V
T90 Nylon	60°C	—	90°C	600V
TWN75	—	75°C	—	600V

*14-10 AWG only.

**14-10 AWG only 2,500 volts peak for electronic use only.

DESCRIPTION:

CONDUCTORS:

Bare, soft annealed copper

14-10 AWG:

Solid, bunched, unilay concentric or compressed stranded (class C)

8-2 AWG:

concentric, compressed stranded (class C)

1 AWG - 4/0:

concentric, compressed stranded (class B)

INSULATION:

PVC

OVERALL JACKET:

Nylon

RATINGS:

(Cables conform to the following standards)

UL--83 for THHN-THWN

UL-1063 for MTW (stranded conductors only)

Federal Specification J-C-30B

NEMA WC-5

UL-758 for AWM Styles 1316 thru 1321,

1408 thru 1414, 1452 and 1453.

SIZE (AWG)	STRANDS NO./O.D.	PVC INSUL. THICKNESS	NYLON JACKET THICKNESS	APPROX. OUTSIDE DIAMETER	AMPACITY		
					THWN† 75°C	THHN* 90°C	MTW‡
14	Solid	.015"	.004"	.104"	15	15	—
12	Solid	.015"	.004"	.121"	20	20	—
10	Solid	.020"	.004"	.152"	30	30	—
14	19/.0147"	.015"	.004"	.112"	15	15	15
12	19/.0185"	.015"	.004"	.131"	20	20	20
10	19/.0234"	.020"	.004"	.164"	30	30	30
8	19/.0295"	.030"	.005"	.216"	50	55	40
6	19/.0372"	.030"	.005"	.253"	65	75	55
4	19/.0469"	.040"	.006"	.322"	85	95	70
3	19/.0526"	.040"	.006"	.350"	100	110	85
2	19/.0591"	.040"	.006"	.381"	115	130	95
1	19/.0664"	.050"	.007"	.443"	130	150	110
1/0	19/.0745"	.050"	.007"	.483"	150	170	125
2/0	19/.0837"	.050"	.007"	.528"	175	195	145
3/0	19/.0940"	.050"	.007"	.579"	200	225	165
4/0	19/.1055"	.050"	.007"	.636"	230	260	195

† Allowable ampacity of not more than three conductors in raceway or cable or earth (directly buried), based on ambient temperature of 30°C (86°F), per Table 310-16 of the 1996 National Electrical Code (NFPA 70-1996).

‡ Allowable ampacity of Type MTW conductors in cable or raceway per Table 13-5(a) of the Electrical Standard for Industrial Machinery, NFPA 79-1994 (ANSI).