

## Nylon Wires

As per : UL 1063; UL 83

### TYPE : THHN/THWN/MTW

PVC/Nylon Cable, Copper Conductors, 600 Volts, 90°C dry rated - LEAD FREE

### Application

THHN/THWN is a general purpose wiring product for use in power, lighting and control circuits. It can be used in conduit, ducts and trays for service feeders and branch circuits in industrial and commercial installations. THHN/THWN is suitable for use in wet and dry locations, at conductor temperatures not exceeding 90°C or for use in oil or coolants at conductor temperatures not exceeding 75°C. THHN/THWN is gasoline and oil resistant II. When used as Machine Tool Wire (MTW) it is rated at 90°C in dry locations and 60°C in wet locations or when exposed to oil or coolants. CMI THHN/THWN/MTW wire is LEAD FREE and RoHS compliant.

### Construction

#### Conductor:

Solid bare, annealed copper per ASTM B3.

**Insulation:** Color coded polyvinyl chloride (PVC), heat, moisture and flame retardant compound per UL 83 and UL 1063.

**Jacket:** A tough abrasion resistant polyamide (Nylon) jacket.

### Electrical Characteristics

Conductor Size AWG	PVC Insulation Thickness mm	Nylon Jacket Thickness mm	Nominal Diameter mm	Approximate Net Cable Weight kg/km	Ampacity* Amps**		
					60°C	75°C	90°C
14	0.38	0.10	2.79	22.3	15	15	15
12	0.38	0.10	3.05	34.2	20	20	20
10	0.51	0.10	3.81	53.6	30	30	30
14	0.38	0.10	2.79	23.8	15	15	15
12	0.38	0.10	3.79	35.7	20	20	20
10	0.51	0.10	4.32	58.0	30	30	30
8	0.76	0.13	5.59	93.7	40	50	55
6	0.76	0.13	6.60	145	55	65	75
4	1.01	0.15	8.38	234	70	85	95
3	1.01	0.15	9.14	287	85	100	110
2	1.01	0.15	9.91	357	95	115	130
1	1.27	0.18	10.9	446	110	130	150
250	1.52	0.20	17.4	1272	215	255	290
300	1.52	0.20	19.3	1521	240	285	320
350	1.52	0.20	20.1	1772	260	310	350
400	1.52	0.20	21.6	2001	280	335	380
500	1.52	0.20	23.9	2482	320	380	430
600	1.78	0.23	27.9	2967	355	420	475
750	1.78	0.23	29.5	3668	400	475	535

