

THHN/THWN-2/T90 PVC/Nylon Insulation 600V Copper

UL and c(UL) listed for guaranteed performance
Made in the USA

Applications:

This document establishes the specifications for THHN/THWN-2/T90 wire with Copper conductors and PVC insulation and Nylon jacket rated for 600 V per UL Standard 83 and CSA Standard C22.2 No. 75. The wire is suitable for wet or dry locations at 90°C. The wire meets VW-1 fire ratings, and is Sunlight Resistant.

Construction Details:

Number of Conductors:	1/C
Conductor:	Solid and Stranded Bare or Tinned Copper, See Table on Page 2
Insulation Material:	PVC
Nominal Insulation Thickness:	Per UL 83
Nominal Insulation Diameter:	Per UL 83
Jacket Material:	Nylon
Nominal Jacket Thickness:	Per UL 83
Nominal Jacket Diameter:	Per UL 83
Shield:	Unshielded
Jacket:	Integral Construction

Surface Print:
VoltGuard600™ by REMEE E549296 (AWG/KCMIL)
(MM²) CU (UL) THWN-2 or THHN 600 VOLTS VW-1 or
C(UL) T90 NYLON 600 VOLTS SUN RES ROHS
MADE IN USA MM/YY (LOT #) SEQ FT

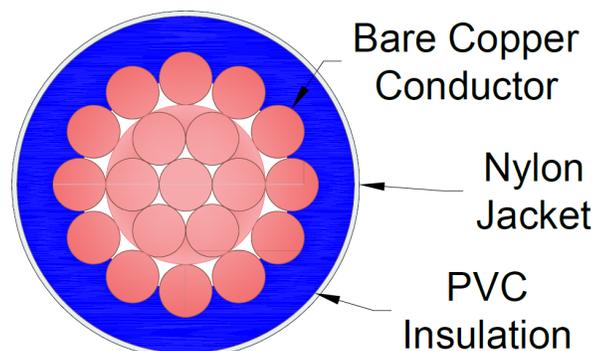
See Table on Page 2 for construction details by size.

Electricals:

Voltage Rating:	600 Volts
DC Resistance:	See Table, Page 2

Options:

Conductor:	See Table, Page 2
Color:	Black, Red or Others, also (with Stripe, Available with MOQ) See Color Information, Page 3



Drawing of 1/0AWG THHN/THWN-2/T90

Technical Details:

Flame Resistance	VW-1 (UL)
Temperature Rating	
Operation	-40°C to + 90°C Dry or Wet

Standards:

- National Electric Code (NFPA 70)
- UL 83 - Thermoplastic Insulated Wires and Cables
- UL 1581 - Standard for Electrical Wires, Cables
- CSA C22.2 No. 75 - Thermoplastic Insulated Wires and Cables

Codes & Listings:

- (UL) listed THHN/THWN-2
- c(UL) listed T90 NYLON

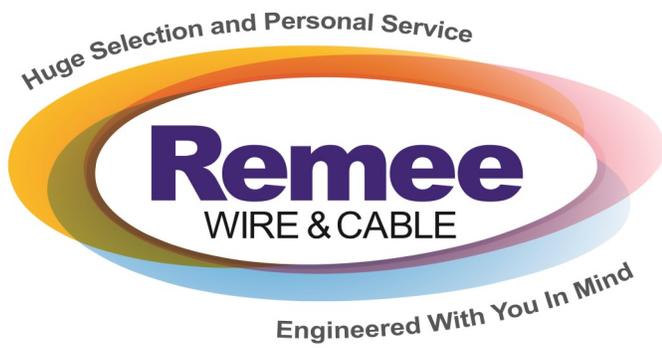


Issue Date: 02/26
Revision: 09

All warranty information can be viewed at WWW.REMEE.COM

This product is RoHS compliant to directive 2002/95/EC

1751 State RTE. 17A STE #1 Florida, NY 10921
Customer Service: 800-431-3864 Fax: 845-651-4160 Website: www.remee.com



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Remeë Part Number *	Size AWG	Size kcmil	Size mm ²	Standard Number of Strands	Approximate Weight (Lbs/Kft)	Insulation Thickness (in.) Min Avg	Jacket Thickness (in.) Min	OD, Nom. (in.)	Nom. DCR @20°C (Ω/KFT)		Ampacity **	
									Bare	Tinned	75°C	90°C
THHN1401XXMUL	14		2.1	1	15	0.015	0.004	0.102	2.55	2.65	30	35
THHN1419XXMUL	14		2.1	19	16	0.015	0.004	0.108	2.57	2.78	30	35
THHN1201XXMUL	12		3.3	1	23	0.015	0.004	0.119	1.60	1.65	35	40
THHN1219XXMUL	12		3.3	19	25	0.015	0.004	0.130	1.63	1.75	35	40
THHN1001XXMUL	10		5.3	1	37	0.020	0.004	0.150	1.00	1.04	50	55
THHN1019XXMUL	10		5.3	19	39	0.020	0.004	0.159	1.02	1.08	50	55
THHN0819XXMUL	8		8.4	19	62	0.030	0.005	0.212	0.639	0.679	70	80
THHN0619XXMUL	6		13.3	19	96	0.030	0.005	0.248	0.403	0.427	95	105
THHN0419XXMUL	4		21.2	19	152	0.040	0.006	0.313	0.253	0.269	125	140
THHN0319XXMUL	3		26.7	19	189	0.040	0.006	0.339	0.201	0.209	145	165
THHN0219XXMUL	2		33.6	19	234	0.040	0.006	0.369	0.159	0.169	170	190
THHN0119BCMUL	1		42.4	19	302	0.050	0.007	0.439	0.126		195	220
THHN1/019BCMUL	1/0		53.5	19	374	0.050	0.007	0.481	0.100		230	260
THHN2/019BCMUL	2/0		67.4	19	464	0.050	0.007	0.525	0.0794		265	300
THHN3/019BCMUL	3/0		85.0	19	577	0.050	0.007	0.575	0.0629		310	350
THHN4/019BCMUL	4/0		107	19	718	0.050	0.007	0.631	0.0500		360	405
THHN25037BCMUL		250	127	37	858	0.060	0.008	0.701	0.0422		405	455
THHN30037BCMUL		300	152	37	1020	0.060	0.008	0.754	0.0353		445	500
THHN35037BCMUL		350	177	37	1181	0.060	0.008	0.804	0.0302		505	570
THHN40037BCMUL		400	203	37	1341	0.060	0.008	0.849	0.0264		545	615
THHN50037BCMUL		500	253	37	1662	0.060	0.008	0.933	0.0212		620	700
THHN60061BCMUL		600	304	61	2004	0.070	0.009	1.031	0.0176		690	780
THHN70061BCMUL		700	355	61	2323	0.070	0.009	1.100	0.0151		755	850
THHN75061BCMUL		750	380	61	2483	0.070	0.009	1.133	0.0141		785	885
THHN100061BCMUL		1000	507	61	3278	0.070	0.009	1.282	0.0106		935	1055

*XX designates the conductor material; BC is Bare Copper, and TC is Tinned Copper. TC available only for sizes 14AWG to 2AWG.

**Ampacities in accordance with NEC (2023 Edition) Table 310.17: Single Insulated Conductors rated up to and including 2000 Volts in Free Air, Based on Ambient Temperature of 30°C (86°F)



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