



# THHN/THWN-2 COPPER CONDUCTOR



## **APPLICATIONS**

THHN/THWN-2 building wire is primarily used for general purpose applications in conduit and cable trays for service, feeders and branch circuits as defined by the National Electrical Code (NEC).

Type THHN or THWN-2, the conductor is appropriate for use in wet or dry location at temperatures not to exceed 90°C or not to exceed 75°C in oil or coolants.

## **STANDARDS**

Apollon wire Type THHN or THWN-2 meets or exceeds all applicable UL standard 83 and requirements of the National Electrical Code RoHS Compliant.

## **CONSTRUCTION**

THHN or THWN-2 copper conductors are annealed (soft) copper, insulated with a tough heat and moisture resistant polyvinyl chloride (PVC), over which a nylon (polyamide) or UL-listed equal jacket is applied.

Available in black, white, red, blue, green, yellow, brown, orange and gray; some colors standard, some subject to economic order quantity.

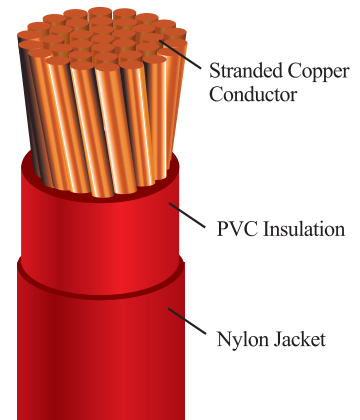
For use in accordance with NEC (national electric code) article 310 – conductors for general wiring.

## **SPECIFICATIONS**

Conductors shall be UL-listed type THHN or THWN-2 gasoline and oil resistant II, suitable for operations at 600 volts as specified in the National Electrical Code. Sizes 14 through 6 AWG shall be rated VW-1.

Conductors shall be annealed copper, insulated with high-heat and moisture resistant PVC, jacketed with abrasion, moisture, gasoline and oil resistant nylon or listed equivalent, as manufactured by Apollon Wire Inc. or approved equal.





## 600V THHN / THWN-2

Conductor		Insulation Thickness		Approx. Overall Diameter		Approx. Weight		Ampacity	
Size (AWG or KCMIL)	No. of Strands	(mm)	(in)	(mm)	(in)	kg/km	lbs/1000ft	THWN (75°C)	THHN (90°C)
14	Solid	0.38	0.015	2.6	0.102	22	15	15	15
12	Solid	0.38	0.015	2.8	0.110	34	23	20	20
10	Solid	0.51	0.020	3.0	0.118	55	37	30	30
14	19	0.38	0.015	3.3	0.130	24	16	20	25
12	19	0.38	0.015	3.8	0.150	36	24	25	30
10	19	0.51	0.020	4.1	0.161	57	38	35	40
8	19	0.76	0.030	5.4	0.213	92	62	50	55
6	19	0.76	0.030	6.3	0.248	141	95	65	75
4	19	1.02	0.040	8.1	0.319	225	151	85	95
3	19	1.02	0.040	8.8	0.346	275	185	100	115
2	19	1.02	0.040	9.6	0.378	350	235	115	130
1	19	1.27	0.050	11.0	0.433	445	299	130	145
1/0	19	1.27	0.050	12.0	0.472	554	372	150	170
2/0	19	1.27	0.050	13.2	0.520	688	462	175	195
3/0	19	1.27	0.050	14.4	0.567	845	568	200	225
4/0	19	1.27	0.050	15.8	0.622	1054	708	230	260
250	37	1.52	0.060	17.6	0.693	1255	843	255	290
300	37	1.52	0.060	19.0	0.748	1494	1004	285	320
350	37	1.52	0.060	20.2	0.795	1723	1158	310	350
400	37	1.52	0.060	21.4	0.843	1960	1317	335	380
500	37	1.52	0.060	23.5	0.925	2417	1624	380	430
600	61	1.52	0.070	26.0	1.024	2957	1987	420	475

\* Per Table 310 - 16 of the National Electrical Code, 1996 editions.  
 Conditions: Not more than three conductors in raceway or cable or earth (directly buried), based on ambient temperature of 30°C

