



## THHN Cable

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The quality of the cable is extremely important for the efficiency of cathodic protection system, especially the anode cables. Commonly use cathodic protection cables are PVDF/HMWPE, XLPE/PVC, THHN, HMWPE etc. Cables used for cathodic protection systems must be highly corrosion resistant and capable of withstanding adverse environments to which they are exposed.

THHN Wire stands for Thermoplastic High Heat-resistant Nylon coated. THHN can come in stranded or solid conductors depending on the size. It is either manufactured in copper or aluminum, and covered in a PVC (polyvinyl chloride) insulation with a nylon jacket. THHN is UL listed with a rated 90 degrees Celsius in dry locations or 75 degrees Celsius in wet applications with a THWN rating. The vast majority of THHN building wire carries a dual rating on the cable marked THHN /THWN for both the wet and dry temperature rating. THHN building wire may also be used for wiring of machine tools, control circuits or on certain appliances.

Office: +86(574)8388 2233

Dongxi, Xinqiao, Xiangshan  
Ningbo 315725, P.R.China

[info@yuxi-anode.com](mailto:info@yuxi-anode.com)

[www.yuxi-anode.com](http://www.yuxi-anode.com)

# APPLICATION

- ▶ Lighting and connecting to external power sources
- ▶ Household electrical appliance
- ▶ Telecommunication equipment
- ▶ Control signal transmission



## SPECIFICATIONS

Size of Conductor		No.&Nominal Diameter of Wire	Wall Thickness		Approximate Overall Diameter	Minimum Insulation Resistance	Ampacity		Cable Nominal Weight
mm	Approximate AWG	mm	mm	mm	mm	M-Ohm-Km	90°C wet	90°C dry	KG/KM
Solid			PVC	Nylon					
1.6	14	1x1.60	0.4	0.10	2.60	130	35	35	22.62
2.0	12	1x2.00	0.4	0.10	3.00	110	40	40	33.57
2.6	10	1x2.60	0.5	0.10	3.80	120	55	55	55.78
3.2	8	1x3.20	0.8	0.13	5.06	120	75	75	88.33

## Stranded

2.0	14/7	7X0.60	0.4	0.10	2.80	130	30	35	23.51
3.5	12/7	7x0.80	0.4	0.10	3.40	110	35	40	39.12
5.5	10/7	7x1.00	0.5	0.10	4.20	120	50	55	60.56
8.0	8/7	7x1.20	0.8	0.13	5.46	120	65	75	91.95
14	6/7	7x1.60	0.8	0.13	6.66	100	95	105	151.77
22	4/7	7x2.00	1.0	0.15	8.30	100	130	140	236.65
30	2/7	7x2.30	1.0	0.15	9.20	100	160	170	306.50
38	1-19	19x1.60	1.3	0.18	10.96	100	185	195	409.82
50	1/0-19	19x1.80	1.3	0.18	11.96	100	220	235	509.05
60	2/0-19	19x2.00	1.3	0.18	12.96	80	250	260	618.96
80	3/0-19	19x2.30	1.3	0.18	14.96	80	300	320	804.44