



POWER KABEL INC.

THHN/THWN-2 ALUMINUM CONDUCTOR

APPLICATIONS & FEATURES

Type THHN-THWN-2 conductors are primarily used in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial applications as specified in the National Electrical Code 2001. When used as Type THHN, conductor is suitable for use in dry locations at temperatures not to exceed 90°C. When used as Type THWN-2 or TWN75 the conductor is suitable for use in wet or dry locations at temperatures not to exceed 90°C or not to exceed 75°C when exposed to oil or coolant. Voltage rating for cable is 600V.

INDUSTRY COMPLIANCES

- UL standard UL-83, UL-758, UL-1063, UL-1581, UL-2556
- Complies with UL's VW-1 (vertical wire) Flame Test.
- 1/0 & larger are rated for CT use
- Meets the requirements of the NEC.
- NEMA WC-70 construction requirements
- Federal Specification AA-59544.
- Sunlight Resistant in all color sizes 6AWG and larger.
- RoHS Compliant

CONSTRUCTION

CONDUCTORS:	Compact stranded AA-8000 series aluminum conductor material per ASTM B800, ASTM B801, ASTM B836, ASTM B901 (Single Input Wire), as applicable
INSULATION:	Abrasion, moisture, and heat resistant polyvinyl chloride (PVC)
JACKET	Abrasion, moisture, and heat resistant nylon polyamide jacket

AWG	No OF STRANDS	APPROX. O.D. (INCHES)	INSULATION THICKNESS		AMPACITY @ 90°C *	WEIGHT/1000 FT
			PVC (INCHES)	NYLON (INCHES)		
8	7	0.204	0.03	0.005	45	30
6	7	0.239	0.03	0.005	60	42
4	7	0.305	0.04	0.006	75	68
2	7	0.36	0.04	0.006	100	86
1	18	0.413	0.05	0.007	115	110
1/0	18	0.45	0.05	0.007	135	134
2/0	18	0.49	0.05	0.007	150	163
3/0	18	0.537	0.05	0.007	175	200
4/0	18	0.589	0.05	0.007	205	247
250	35	0.656	0.06	0.008	230	296
300	35	0.706	0.06	0.008	255	359
350	35	0.752	0.06	0.008	280	401
400	35	0.795	0.06	0.008	305	453
500	35	0.872	0.06	0.008	350	556
600	58	0.971	0.07	0.009	385	679
700	58	1.035	0.07	0.009	420	782
750	58	1.066	0.07	0.009	435	833
900	58	1.139	0.07	0.009	480	987
1000	58	1.218	0.07	0.009	500	1090

* Ampacities for not more than three conductors in raceway, based on ambient temperature of 30°C per Table 310-15 of the 2011 NEC. To determine correct ampacity by conductor size, please consult the National Electric Code, latest edition.