



THHN/THWN-2 Screened Cable



Eland Product Group: OG0

APPLICATION

THHN/THWN-2 cables are used in Class 1, Division 2 Hazardous locations such as those encountered in the oil, gas and petrochemical industry. They can be installed in trays, wire ways, ducts, conduit and aerially when properly supported by a messenger. They are approved for direct burial, for use in wet or dry locations, and outdoors in cable trays where a sunlight resistant rating is required.

Cable designation: THHN references the Nylon-coated conductor wire, THWN-2 the 90°C PVC insulation layer.

CHARACTERISTICS

Voltage Rating
600V

Temperature Rating
+90°C

CONSTRUCTION

Conductor
Bare Annealed Copper

Insulation
PVC-FR / Nylon (Polyvinyl Chloride - Flame Retardant / Nylon)

Screen
Aluminum Tape

Drain Wire
Tinned Copper (16AWG 7 strand)

Ripcord
Nylon

Outer Sheath
Special PVC (Polyvinyl Chloride)

Sheath Colour
● Black

Core Identification
Color coded as E2 per ICEA S-73-532

STANDARDS

ICEA S-73-532, UL 1277, UL 83, ASTM B3/B8

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





DIMENSIONS

ELAND PART NUMBER	NO OF CORES	AWG SIZE	NOMINAL THICKNESS INSULATION PVC mm	NOMINAL THICKNESS NYLON mm	NOMINAL THICKNESS SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	NOMINAL AMPACITY AMPS
OG060210AWGBK	2	10	0.51	0.10	1.14	10.87	189	40
OG060212AWGBK	2	12	0.38	0.10	1.14	9.35	132	30.0
OG060214AWGBK	3	10	0.51	0.10	1.14	11.52	251	40
OG060310AWGBK	3	12	0.38	0.10	1.14	9.87	174	30.0
OG060312AWGBK	3	14	0.38	0.10	1.14	8.67	129	25.0
OG060314AWGBK	3	14	0.38	0.10	1.14	8.67	129	25.0
OG060410AWGBK	4	10	0.51	0.10	1.14	12.61	290	32/40
OG060412AWGBK	4	12	0.38	0.10	1.14	10.74	219	24.0/30.0
OG060414AWGBK	4	14	0.38	0.10	1.14	9.42	159	20.0/25.0
OG060510AWGBK	5	10	0.51	0.10	1.52	14.57	414	32
OG060512AWGBK	5	12	0.38	0.10	1.14	11.69	272	24.0
OG060514AWGBK	5	14	0.38	0.10	1.14	10.24	190	20.0
OG060610AWGBK	6	10	0.51	0.10	1.52	15.82	479	32
OG060612AWGBK	6	12	0.38	0.10	1.14	12.70	310	24.0
OG060614AWGBK	6	14	0.38	0.10	1.14	11.10	220	20.0
OG060710AWGBK	7	10	0.51	0.10	1.52	15.82	540	28
OG060712AWGBK	7	12	0.38	0.10	1.14	12.70	338	21.0
OG060714AWGBK	7	14	0.38	0.10	1.14	11.10	243	17.5
OG060810AWGBK	8	10	0.51	0.10	1.52	17.35	609	28
OG060812AWGBK	8	12	0.38	0.10	1.52	14.53	394	21.0
OG060814AWGBK	8	14	0.38	0.10	1.14	12.14	277	17.5
OG060910AWGBK	9	10	0.51	0.10	1.52	18.69	679	28
OG060912AWGBK	9	12	0.38	0.10	1.52	15.60	470	21.0
OG060914AWGBK	9	14	0.38	0.10	1.52	13.06	307	17.5
OG061010AWGBK	10	10	0.51	0.10	1.52	19.95	748	20
OG061012AWGBK	10	12	0.38	0.10	1.52	16.61	513	21.0
OG061014AWGBK	10	14	0.38	0.10	1.52	14.68	362	12.5
OG061110AWGBK	11	10	0.51	0.10	1.52	20.24	811	20
OG061112AWGBK	11	12	0.38	0.10	1.52	16.84	549	15.0
OG061114AWGBK	11	14	0.38	0.10	1.52	14.68	388	12.5
OG061210AWGBK	12	10	0.51	0.10	2.03	21.89	930	20
OG061212AWGBK	12	12	0.38	0.10	1.52	17.34	595	15.0
OG061214AWGBK	12	14	0.38	0.10	1.52	15.31	421	12.5
OG061310AWGBK	13	10	0.51	0.10	2.03	22.27	984	20
OG061312AWGBK	13	12	0.38	0.10	1.52	17.64	634	15.0
OG061314AWGBK	13	14	0.38	0.10	1.52	15.57	443	12.5
OG061410AWGBK	14	10	0.51	0.10	2.03	22.98	1116	20
OG061412AWGBK	14	12	0.38	0.10	1.52	18.21	677	15.0
OG061414AWGBK	14	14	0.38	0.10	1.52	16.06	473	12.5
OG061510AWGBK	15	10	0.51	0.10	2.03	23.56	1173	20
OG061512AWGBK	15	12	0.38	0.10	1.52	18.68	717	15.0
OG061514AWGBK	15	14	0.38	0.10	1.52	16.46	501	12.5
OG061610AWGBK	16	10	0.51	0.10	2.03	24.19	1262	20
OG061612AWGBK	16	12	0.38	0.10	1.52	19.19	747	15.0
OG061614AWGBK	16	14	0.38	0.10	1.52	16.89	533	12.5



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			mm	mm	mm	mm		
OG061910AWGBK	19	10	0.51	0.10	2.03	25.45	1376	20
OG061912AWGBK	19	12	0.38	0.10	1.52	20.19	870	15.0
OG061914AWGBK	19	14	0.38	0.10	1.52	17.75	615	12.5
OG062010AWGBK	20	10	0.51	0.10	2.03	26.21	1443	20
OG062012AWGBK	20	12	0.38	0.10	1.52	20.80	933	15.0
OG062014AWGBK	20	14	0.38	0.10	1.52	18.27	643	12.5
OG062510AWGBK	25	10	0.51	0.10	2.03	29.35	1771	18
OG062512AWGBK	25	12	0.38	0.10	2.03	24.33	1176	13.5
OG062514AWGBK	25	14	0.38	0.10	1.52	20.42	787	11.3
OG063010AWGBK	30	10	0.51	0.10	2.03	31.36	2098	18
OG063012AWGBK	30	12	0.38	0.10	2.03	25.94	1379	13.5
OG063014AWGBK	30	14	0.38	0.10	2.03	22.82	972	11.3
OG063710AWGBK	37	10	0.51	0.10	2.03	33.83	2544	16
OG063712AWGBK	37	12	0.38	0.10	2.03	27.91	1665	12.0
OG063714AWGBK	37	14	0.38	0.10	2.03	24.51	1174	10.0
OG064010AWGBK	40	10	0.51	0.10	2.03	35.13	2738	16
OG064012AWGBK	40	12	0.38	0.10	2.03	28.95	1827	12.0
OG064014AWGBK	40	14	0.38	0.10	2.03	25.40	1262	10.0
OG064510AWGBK	45	10	0.51	0.10	2.03	37.23	3056	14
OG064512AWGBK	45	12	0.38	0.10	2.03	30.63	2039	10.5
OG064514AWGBK	45	14	0.38	0.10	2.03	26.84	1403	8.8
OG065010AWGBK	50	10	0.51	0.10	2.03	38.65	3378	14
OG065012AWGBK	50	12	0.38	0.10	2.03	31.77	2245	10.5
OG065014AWGBK	50	14	0.38	0.10	2.03	27.81	1537	8.8