



THHN/THWN-2 Unscreened Cable



Eland Product Group:

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)

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

THE CABLE LAB®

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



SCIENCE
BASED
TARGETS

**BUSINESS
AMBITION FOR 1.5°C**



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/863/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.



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
OG080210AWGBK	2 Flat	10	0.51	0.10	1.14	6.37x10.58	166	40
OG080212AWGBK	2 Flat	12	0.38	0.10	1.14	5.72 x9.12	115	30.0
OG080214AWGBK	2 Flat	14	0.38	0.10	1.14	5.21 x 8.00	86	25.0
OG080310AWGBK	3	10	0.51	0.10	1.14	11.37	237	40
OG080312AWGBK	3	12	0.38	0.10	1.14	9.56	156	30.0
OG080314AWGBK	3	14	0.38	0.10	1.14	8.52	114	25.0
OG080410AWGBK	4	10	0.51	0.10	1.14	12.45	298	32/40
OG080412AWGBK	4	12	0.38	0.10	1.14	10.36	188	24.0/30.0
OG080414AWGBK	4	14	0.38	0.10	1.14	9.25	135	20.0/25.0
OG080510AWGBK	5	10	0.51	0.10	1.14	14.41	391	32
OG080512AWGBK	5	12	0.38	0.10	1.14	11.39	247	24.0
OG080514AWGBK	5	14	0.38	0.10	1.14	10.09	174	20.0
OG080610AWGBK	6	10	0.51	0.10	1.14	15.67	482	32
OG080612AWGBK	6	12	0.38	0.10	1.14	12.40	292	24.0
OG080614AWGBK	6	14	0.38	0.10	1.14	10.95	204	20.0
OG080710AWGBK	7	10	0.51	0.10	1.14	15.67	515	28
OG080712AWGBK	7	12	0.38	0.10	1.14	12.40	320	21.0
OG080714AWGBK	7	14	0.38	0.10	1.14	10.95	226	17.5
OG080810AWGBK	8	10	0.51	0.10	1.14	16.97	591	28
OG080812AWGBK	8	12	0.38	0.10	1.14	14.20	377	21.0
OG080814AWGBK	8	14	0.38	0.10	1.14	11.84	260	17.5
OG080910AWGBK	9	10	0.51	0.10	1.14	18.31	672	28
OG080912AWGBK	9	12	0.38	0.10	1.52	15.27	440	21.0
OG080914AWGBK	9	14	0.38	0.10	1.14	12.76	290	17.5
OG081010AWGBK	10	10	0.51	0.10	1.52	19.57	726	20
OG081012AWGBK	10	12	0.38	0.10	1.52	16.28	488	15.0
OG081014AWGBK	10	14	0.38	0.10	1.52	14.38	345	12.5
OG081110AWGBK	11	10	0.51	0.10	1.52	19.86	789	20
OG081112AWGBK	11	12	0.38	0.10	1.52	16.51	531	15.0
OG081114AWGBK	11	14	0.38	0.10	1.52	14.58	372	12.5
OG081210AWGBK	12	10	0.51	0.10	1.52	20.49	852	20
OG081212AWGBK	12	12	0.38	0.10	1.52	17.02	560	15.0
OG081214AWGBK	12	14	0.38	0.10	1.52	15.01	396	12.5
OG081310AWGBK	13	10	0.51	0.10	2.03	21.88	961	20
OG081312AWGBK	13	12	0.38	0.10	1.52	17.31	616	15.0
OG081314AWGBK	13	14	0.38	0.10	1.52	15.27	427	12.5
OG081410AWGBK	14	10	0.51	0.10	2.03	22.60	1094	20
OG081412AWGBK	14	12	0.38	0.10	1.52	17.88	659	15.0
OG081414AWGBK	14	14	0.38	0.10	1.52	15.76	457	12.5
OG081510AWGBK	15	10	0.51	0.10	2.03	23.18	1161	20
OG081512AWGBK	15	12	0.38	0.10	1.52	18.35	700	15.0
OG081514AWGBK	15	14	0.38	0.10	1.52	16.16	485	12.5
OG081610AWGBK	16	10	0.51	0.10	2.03	23.81	1183	20
OG081612AWGBK	16	12	0.38	0.10	1.52	18.86	729	15.0
OG081614AWGBK	16	14	0.38	0.10	1.52	16.59	510	12.5



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OG081910AWGBK	19	10	0.51	0.10	2.03	25.07	1360	20
OG081912AWGBK	19	12	0.38	0.10	1.52	19.86	853	15.0
OG081914AWGBK	19	14	0.38	0.10	1.52	17.45	589	12.5
OG082010AWGBK	20	10	0.51	0.10	2.03	25.82	1420	20
OG082012AWGBK	20	12	0.38	0.10	1.52	20.47	866	15.0
OG082014AWGBK	20	14	0.38	0.10	1.52	17.97	620	12.5
OG082510AWGBK	25	10	0.51	0.10	2.03	28.97	1753	18
OG082512AWGBK	25	12	0.38	0.10	2.03	24.00	1158	13.5
OG082514AWGBK	25	14	0.38	0.10	1.52	20.12	771	11.3
OG083010AWGBK	30	10	0.51	0.10	2.03	30.98	2075	18
OG083012AWGBK	30	12	0.38	0.10	2.03	25.61	1362	13.5
OG083014AWGBK	30	14	0.38	0.10	2.03	22.51	949	11.3
OG083710AWGBK	37	10	0.51	0.10	2.03	33.45	2520	16
OG083712AWGBK	37	12	0.38	0.10	2.03	27.58	1647	12.0
OG083714AWGBK	37	14	0.38	0.10	2.03	24.21	1152	10.0
OG084010AWGBK	40	10	0.51	0.10	2.03	34.75	2714	16
OG084012AWGBK	40	12	0.38	0.10	2.03	28.62	1810	12.0
OG084014AWGBK	40	14	0.38	0.10	2.03	25.10	1240	10.0
OG084510AWGBK	45	10	0.51	0.10	2.03	36.85	3036	14
OG084512AWGBK	45	12	0.38	0.10	2.03	30.3	2021	10.5
OG084514AWGBK	45	14	0.38	0.10	2.03	26.54	1381	8.8
OG085010AWGBK	50	10	0.51	0.10	2.03	38.27	3353	14
OG085012AWGBK	50	12	0.38	0.10	2.03	31.44	2228	10.5
OG085014AWGBK	50	14	0.38	0.10	2.03	27.51	1446	8.8