



EN 60332-3-24 NHXH FE180-E30 0.6/1kV Cable



Eland Product Group: A5K

APPLICATION

Safety cables are used in all locations where a high degree of protection against fire and fire damage has to be provided for human life and equipment and are, therefore, subject to high security requirements. These cables may be used indoors and outdoors. They may not be installed directly into the ground or into water. Fire resistant to FE 180 and Circuit Integrity to E 30.

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV

Temperature Rating
-5°C to +90°C

Minimum Bending Radius
RE: 12 x overall diameter
RM: 15 x overall diameter

CONSTRUCTION

Conductor
RE: Class 1 solid copper conductor
RM: Class 2 stranded copper conductor

Insulation
LSZH (Low Smoke Zero Halogen)

Inner Sheath
LSZH (Low Smoke Zero Halogen)

Outer Sheath
LSZH (Low Smoke Zero Halogen)

Core Identification
3 cores: ● Green/Yellow ● Brown ● Black
4 cores: ● Green/Yellow ● Brown ● Black ● Grey
5 cores: ● Green/Yellow ● Blue ● Brown ● Black ● Grey
7 core and above: ● Black with ○ White numbers

Sheath Colour
● Orange

STANDARDS

DIN VDE 0266, DIN VDE 0276-604, DIN VDE 0472-814,
EN 60228

Flame retardant according to: IEC/EN 60332-3-24

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 NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5KNHE30-1016	1	16	RM	18.6	207
A5KNHE30-1025	1	25	RM	20.6	307
A5KNHE30-1035	1	35	RM	22.8	407
A5KNHE30-1050	1	50	RM	26.3	535
A5KNHE30-1070	1	70	RM	30	744
A5KNHE30-1095	1	95	RM	34.5	1009
A5KNHE30-1120	1	120	RM	39	1248
A5KNHE30-1150	1	150	RM	44.5	1538
A5KNHE30-1185	1	185	RM	50.5	1917
A5KNHE30-1240	1	240	RM	57.5	2521
A5KNHE30-1300	1	300	RM	64.5	3400
A5KNHE30-20015	2	1.5	RE	10.2	145
A5KNHE30-20025	2	2.5	RE	11	180
A5KNHE30-20040	2	4	RE	11.8	224
A5KNHE30-20060	2	6	RE	12.8	282
A5KNHE30-2010	2	10	RE	14.4	393
A5KNHE30-2016	2	16	RM	17.3	605
A5KNHE30-30015	3	1.5	RM	10.6	165
A5KNHE30-30025	3	2.5	RM	11.5	209
A5KNHE30-30040	3	4	RM	12.4	268
A5KNHE30-30060	3	6	RM	13.5	344
A5KNHE30-3010	3	10	RM	15.6	506
A5KNHE30-3016	3	16	RM	18	761
A5KNHE30-3025	3	25	RM	22.3	1160
A5KNHE30-3035	3	35	RM	24.9	1522
A5KNHE30-3050	3	50	RM	27.7	198
A5KNHE30-3070	3	70	RM	32	2746
A5KNHE30-3095	3	95	RM	36.5	3712
A5KNHE30-3025/16	3	25/16	RM	23.4	1335
A5KNHE30-3035/16	3	35/16	RM	25.7	1683
A5KNHE30-3050/25	3	50/25	RM	29	2244
A5KNHE30-3070/35	3	70/35	RM	33.4	3101
A5KNHE30-3095/50	3	95/50	RM	38.3	4207
A5KNHE30-3120/70	3	120/70	RM	42.6	5315
A5KNHE30-40015	4	1.5	RE	11.3	192
A5KNHE30-40025	4	2.5	RE	12.3	249
A5KNHE30-40040	4	4	RE	13.3	322
A5KNHE30-40060	4	6	RE	14.5	418
A5KNHE30-4010	4	10	RE	16.8	620
A5KNHE30-4016	4	16	RM	19.8	944
A5KNHE30-4025	4	25	RM	24.3	1452
A5KNHE30-4035	4	35	RM	27.1	1906
A5KNHE30-4050	4	50	RM	30.5	2514
A5KNHE30-4070	4	70	RM	35.3	3497
A5KNHE30-4095	4	95	RM	40.2	4728
A5KNHE30-4120	4	120	RM	44.5	5882
A5KNHE30-4150	4	150	RM	49	7199

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR CLASS	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5KNHE30-50015	5	1.5	RE	12.2	228
A5KNHE30-50025	5	2.5	RE	13.3	295
A5KNHE30-50040	5	4	RE	14.4	386
A5KNHE30-50060	5	6	RE	16.1	518
A5KNHE30-5010	5	10	RE	18.3	755
A5KNHE30-5016	5	16	RM	22.2	1187
A5KNHE30-5025	5	25	RM	26.6	1773
A5KNHE30-5035	5	35	RM	29.8	2341
A5KNHE30-5050	5	50	RM	33.7	3100
A5KNHE30-700015	7	1.5	RE	13	274
A5KNHE30-100015	10	1.5	RE	16.4	397
A5KNHE30-120015	12	1.5	RE	16.8	438
A5KNHE30-190015	19	1.5	RE	19.2	606
A5KNHE30-240015	24	1.5	RE	22.6	785
A5KNHE30-300015	30	1.5	RE	23.7	917
A5KNHE30-700025	7	2.5	RE	14.2	358
A5KNHE30-120025	12	2.5	RE	18	580
A5KNHE30-190025	19	2.5	RE	21.8	852
A5KNHE30-240025	24	2.5	RE	25	1054
A5KNHE30-300025	30	2.5	RE	26.3	1245

CONDUCTORS

Class 1 Solid Conductor for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Plain Wires	Metal-Coated Wires
0.5	36	36.7
1.5	12.1	12.2
2.5	7.41	7.56
4	4.61	4.7
6	3.08	3.11
10	1.83	1.84
25	0.727	-
35	0.524	-
50	0.387	-

The above table is in accordance with EN 60228

CONDUCTORS

Class 2 Stranded Conductor for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Plain Wires	Metal-Coated Wires
0.5	36	36.7
1.5	12.1	12.2
2.5	7.41	7.5
4	4.61	4.7
6	3.08	3.11
10	1.83	1.84
15	1.15	1.16
25	0.727	0.734
35	0.524	0.529
50	0.387	0.391
70	0.268	0.27
95	0.193	0.195
120	0.153	0.154
150	0.124	0.126
185	0.0991	0.1
240	0.0762	0.0762
300	0.0607	0.0607

The above table is in accordance with BS EN 60228 (previously BS 6360)

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING (CLIPPED DIRECT) Amps					
	2 Core Cables			3 Core Cables		
	Clipped Direct	In Air	In Conduit	Clipped Direct	In Air	In Conduit
1.5	24	-	22	22	-	19.5
2.5	33	-	30	30	-	26
4	45	-	40	40	-	35
6	58	-	51	52	-	44
10	80	-	69	71	-	60
16	107	-	91	96	-	80
25	138	161	119	119	135	105
35	171	200	146	147	169	128
50	209	242	175	179	207	154
70	269	310	221	229	268	194
95	328	377	265	278	328	233
120	382	437	305	322	383	268
150	441	504	-	371	444	-
185	506	575	-	424	510	-
240	599	679	-	500	607	-
300	693	783	-	576	703	-

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.