



N2XH Enhanced Flex FRNC-LSZH KEMA Approved Power Cable



APPLICATION

These power cables are used for electricity supply in low voltage installation system. They are well adapted to underground use in industrial applications with an additional mechanical protection. These cables can be fixed on cable trays, within conduits or fixed to walls and are suitable for duct installation.

CHARACTERISTICS

Voltage Rating (U₀/U)

Nominal voltage (AC) U₀/U: 0.6/1kV

Max operating voltage (DC) U₀/U: 0.9/1.8kV

Test Voltage

3.5kV

Temperature Rating

Fixed: -40°C to +90°C

Minimum Bending Radius

Fixed: 6x overall diameter

CONSTRUCTION

Conductor

Class 5 Fine Stranded Copper

Insulation

XLPE (Cross-Linked Polyethylene)

Bedding

LSZH-FRNC (Low Smoke Zero Halogen - Flame Retardant Non-Corrosive)

Sheath

LSZH-FRNC (Low Smoke Zero Halogen - Flame Retardant Non-Corrosive)

Core Identification

1 core: ● Black

2 core: ● Blue ● Brown

3 core including earth: ● Blue ● Brown ● Green/Yellow

4 core including earth: ● Brown ● Black ● Grey ● Green/Yellow

5 core including earth core: ● Brown ● Black ● Grey

● Green/Yellow ● Blue

Sheath Colour

● Black

BSI KITEMARK™ TESTED



Cables are tested and verified by The Cable Lab[®] to confirm they meet the quality standards required of the BSI Cable Batch Verification Kitemark™

CABLE THIRD-PARTY ACCREDITATION



Cables are tested and approved by KEMA Laboratories in The Netherlands to KEMA K42C-1-5

*applicable up to 5 cores and only for sizes 35mm² to 300mm² inclusive

STANDARDS

VDE 0274 Part 604, VDE0276 Part 604, HD 604 S1, IEC 60364, EN 60228, EN 62230, DIN VDE 0100, CEI 20-60, NEN 1010, NF C15-100

Flame Retardant according to IEC 60332-3-24, IEC 60332-1-2
Low Smoke Density / Halogen free according to IEC 61034-1/2, IEC 60754-1/2

UV Resistant / UV stable. Ozone Resistant - EN 50396

Abrasion Resistant - EN 60229-4.1

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



REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



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 NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A7X010015	1	1.5	1.60	0.70	0.92	5.4	66
A7X010025	1	2.5	2.00	0.70	0.92	5.8	70
A7X010040	1	4	2.50	0.70	0.92	6.3	74
A7X010060	1	6	3.00	0.70	0.92	6.8	95
A7X01010	1	10	4.10	0.70	0.92	7.9	138
A7X01016	1	16	5.25	0.70	0.92	9.1	199
A7X01025	1	25	6.60	0.90	0.92	10.8	288
A7X01035	1	35	7.50	0.90	0.92	11.7	381
A7X01050	1	50	9.25	1.00	0.92	13.7	526
A7X01070	1	70	11.20	1.10	0.92	15.8	720
A7X01095	1	95	12.50	1.10	1.00	17.3	941
A7X01120	1	120	14.00	1.20	1.00	19.0	1183
A7X01150	1	150	15.75	1.40	1.08	21.4	1456
A7X01185	1	185	18.20	1.60	1.12	24.2	1807
A7X01240	1	240	20.00	1.70	1.16	26.4	2295
A7X01300	1	300	23.10	1.80	1.16	29.7	2846
A7X01400	1	400	26.40	2.00	1.16	33.4	3681
A7X01500	1	500	29.70	2.00	1.24	37.3	4720
A7X01630	1	630	33.00	2.00	1.56	41.2	6176
A7X020015	2	1.5	1.6	0.70	1.24	10.0	147
A7X020025	2	2.5	2.0	0.70	1.24	10.8	179
A7X020040	2	4	2.5	0.70	1.24	11.8	226
A7X020060	2	6	3.0	0.70	1.24	12.8	281
A7X02010	2	10	4.1	0.70	1.24	15.2	412
A7X02016	2	16	5.25	0.70	1.24	17.5	577
A7X02025	2	25	6.6	0.90	1.24	21.4	858
A7X02035	2	35	7.50	0.90	1.24	23.2	1092
A7X02050	2	50	9.25	1.00	1.24	27.1	1503
A7X02070	2	70	11.20	1.10	1.24	31.6	2045
A7X02095	2	95	12.50	1.10	1.40	34.8	2643
A7X02120	2	120	14.00	1.20	1.48	38.6	3318
A7X02150	2	150	15.75	1.40	1.56	43.7	4146
A7X02185	2	185	18.20	1.60	1.64	49.8	5215
A7X02240	2	240	20.00	1.70	1.80	54.2	6491
A7X02300	2	300	23.00	1.80	1.80	60.8	8079
A7X02400	2	400	26.00	2.00	2.04	67.6	10390
A7X030015	3	1.5	1.6	0.70	1.24	10.5	165
A7X030025	3	2.5	2.00	0.70	1.24	11.3	206
A7X030040	3	4	2.50	0.70	1.24	12.4	266
A7X030060	3	6	3.00	0.70	1.40	13.5	337
A7X03010	3	10	4.10	0.70	1.48	16.1	503
A7X03016	3	16	5.25	0.70	1.56	18.6	718
A7X03025	3	25	6.60	0.90	1.64	22.7	1071
A7X03035	3	35	7.50	0.90	1.24	24.7	1388
A7X03050	3	50	9.25	1.10	1.24	29.1	1919



DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A7X03070	3	70	11.20	1.10	1.32	34.0	2603
A7X03095	3	95	12.50	1.10	1.40	37.2	3423
A7X03120	3	120	14.00	1.20	1.48	41.2	4316
A7X03150	3	150	15.75	1.40	1.64	46.9	5397
A7X03185	3	185	18.20	1.60	1.72	53.4	6761
A7X03240	3	240	20.00	1.70	1.88	57.9	8483
A7X03300	3	300	23.00	1.80	2.04	65.3	10583
A7X03400	3	400	26.00	2.00	2.24	73.2	13671
A7X040015	4	1.5	1.60	0.70	1.24	11.3	193
A7X040025	4	2.5	2.00	0.70	1.24	12.2	243
A7X040040	4	4	2.50	1.10	1.24	13.4	320
A7X040060	4	6	3.00	0.70	1.24	14.6	411
A7X04010	4	10	4.10	0.70	1.24	17.5	620
A7X04016	4	16	5.25	0.70	1.24	20.3	895
A7X04025	4	25	6.60	0.90	1.24	24.9	1340
A7X04035	4	35	7.50	0.90	1.24	27.3	1752
A7X04050	4	50	9.25	1.00	1.32	32.0	2449
A7X04070	4	70	11.20	1.10	1.40	37.4	3379
A7X04095	4	95	12.50	1.10	1.48	41.2	4387
A7X04120	4	120	14.00	1.20	1.64	45.9	5561
A7X04150	4	150	15.75	1.40	1.72	51.9	7091
A7X04185	4	185	18.20	1.60	1.88	59.2	8681
A7X04240	4	240	20.00	1.70	2.04	64.4	10919
A7X04300	4	300	23.00	1.80	2.20	72.6	13618
A7X04400	4	400	26.00	2.00	2.28	80.8	17511
A7X050015	5	1.5	1.60	0.70	1.24	12.3	213
A7X050025	5	2.5	2.00	0.70	1.24	13.4	278
A7X050040	5	4	2.50	1.10	1.24	14.7	377
A7X050060	5	6	3.00	0.70	1.24	16.2	509
A7X05010	5	10	4.10	0.70	1.24	19.3	743
A7X05016	5	16	5.25	0.70	1.24	22.4	1075
A7X05025	5	25	6.60	0.90	1.24	27.5	1657
A7X05035	5	35	7.50	0.90	1.32	30.1	2154
A7X05050	5	50	9.25	1.00	1.40	35.6	3002
A7X05070	5	70	11.20	1.10	1.48	41.6	4121
A7X05095	5	95	12.50	1.10	1.64	45.9	5390
A7X05120	5	120	14.00	1.20	1.72	50.9	6782
A7X05150	5	150	15.75	1.40	1.88	57.5	8515
A7X05185	5	185	18.20	1.60	2.04	65.8	10679
A7X05240	5	240	20.00	1.70	2.20	71.6	13602
A7X05300	5	300	23.00	1.80	2.24	80.2	16906
A7X070060	7	6	3.10	0.70	1.24	19.0	675
A7X07010	7	10	4.10	0.70	1.24	22.0	1005



ELECTRICAL CHARACTERISTICS

Single Core

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A				MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
	IN CONDUIT		IN AIR		
	FLAT	TRIPLEX	FLAT	TRIPLEX	
1.5	20	23	-	-	13.3
2.5	28	31	-	-	7.98
4	66	54	56	40	4.95
6	82	67	73	53	3.3
10	104	86	91	73	1.91
16	132	109	122	97	1.21
25	170	142	164	132	0.780
35	207	173	206	165	0.524
50	243	205	250	202	0.386
70	298	251	318	257	0.272
95	355	301	392	319	0.206
120	404	341	457	370	0.161
150	451	384	525	425	0.129
185	510	436	607	492	0.106
240	592	505	727	588	0.0801
300	668	569	838	676	0.0641
400	764	649	987	792	0.0486
500	862	726	1138	905	0.0384
630	961	810	1200	986	0.0287

Multi Core

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
	IN AIR		
1.5	24		13.3
2.5	32		7.98
4	40		4.95
6	50		3.30
10	69		1.91
16	91		1.21
25	126		0.780
35	155		0.554
50	189		0.386
70	240		0.272
95	296		0.206
120	344		0.161
150	395		0.129
185	455		0.106
240	534		0.0801
300	619		0.0641
400	724		0.0486