

## N2XBH Cable



Eland Product Group: B2L

### APPLICATION

The N2XBH cable can be used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U  
0.6/1kV

**Test Voltage**  
3.5kV

**Temperature Rating**  
Maximum Operating: +90°C  
Maximum Short-Circuit: +250°C

**Minimum Bending Radius**  
12 x overall diameter

### CONSTRUCTION

**Conductor**  
Class 2 Stranded copper

**Insulation**  
XLPE (Cross-Linked Polyethylene)

**Filler**  
HFFR (Halogen free flame retardant)

**Armour**  
Double galvanized steel tape

**Outer Sheath**  
HFFR (Halogen free flame retardant)

**Core Identification**  
2 core: ● Blue ● Brown  
3 core: ● Brown ● Black ● Grey  
4 core: ● Blue ● Brown ● Black ● Grey  
5 core: ● Blue ● Brown ● Black ● Grey ● Black

**Sheath Colour**  
● Black ● Green

### STANDARDS

DIN VDE 0276-604, TS HD 604.S1, IS 1516.1, IEC 60502-1  
BS EN / IEC 61034, BS EN / IEC 60754

Flame retardant according to IEC 60332-3-24 Cat. C

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



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 <sup>2</sup>	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B2L020025**	2	2.5	1.76	0.7	1.24	13	276
B2L020040**	2	4	2.21	0.7	1.24	14	326
B2L020060**	2	6	2.71	0.7	1.24	15	384
B2L02010**	2	10	3.85	0.7	1.24	17	498
B2L02016**	2	16	4.8	0.7	1.24	19	649
B2L02025**	2	25	5.85	0.9	1.24	22	882
B2L02035**	2	35	6.9	0.9	1.32	24	1113
B2L02050**	2	50	8.1	1	1.4	27	1421
B2L02070**	2	70	9.7	1.1	1.48	31	1899
B2L02095**	2	95	11.4	1.1	1.64	35	2482
B2L030015**	3	1.5	1.36	0.7	1.24	12	265
B2L030025**	3	2.5	1.76	0.7	1.24	14	342
B2L030040**	3	4	2.21	0.7	1.24	15	417
B2L030060**	3	6	2.71	0.7	1.24	16	501
B2L03010**	3	10	3.85	0.7	1.24	19	704
B2L03016**	3	16	4.8	0.7	1.24	21	938
B2L03025**	3	25	5.85	0.9	1.24	24	1315
B2L03035**	3	35	6.9	0.9	1.32	26	1682
B2L03050**	3	50	8.1	1	1.4	29	2176
B2L03070**	3	70	9.7	1.1	1.48	34	2949
B2L03095**	3	95	11.4	1.1	1.64	38	4004
B2L03120**	3	120	12.65	1.2	1.72	42	5215
B2L03150**	3	150	14.4	1.4	1.88	47	6413
B2L03185**	3	185	15.75	1.6	2.04	51	7719
B2L03240**	3	240	18.2	1.7	2.2	58	9961
B2L0316/10**	3	16+10	4.8	0.7	1.24	21	1073
B2L03025/16**	3	25+16	5.85	0.9	1.24	25	1511
B2L03035/16**	3	35+16	6.9	0.9	1.32	27	1861
B2L03050/25**	3	50+25	8.1	1	1.4	30	2377
B2L03070/35**	3	70+35	9.7	1.1	1.56	35	3235
B2L03095/50**	3	95+70	11.4	1.1	1.64	39	4634
B2L03120/70**	3	120+70	12.65	1.2	1.8	44	5813
B2L03150/70**	3	150+70	14.4	1.4	1.88	48	6888
B2L03185/95**	3	185+95	15.75	1.6	2.04	52	8412
B2L03240/120**	3	240+120	18.2	1.7	2.2	59	10679
B2L040015**	4	1.5	1.36	0.7	1.24	13	309
B2L040025**	4	2.5	1.76	0.7	1.24	14	369
B2L040040**	4	4	2.21	0.7	1.24	16	469
B2L040060**	4	6	2.71	0.7	1.24	17	577
B2L04010**	4	10	3.85	0.7	1.24	20	821
B2L04016**	4	16	4.8	0.7	1.24	22	1113
B2L04025**	4	25	5.85	0.9	1.32	25	1593
B2L04035**	4	35	6.9	0.9	1.4	28	2060
B2L04050**	4	50	8.1	1	1.48	32	2637
B2L04070**	4	70	9.7	1.1	1.56	36	3611
B2L04095**	4	95	11.4	1.1	1.72	41	5355
B2L04120**	4	120	12.65	1.2	1.88	46	6590
B2L04150**	4	150	14.4	1.4	1.96	51	8096



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B2L04185**	4	185	15.75	1.6	2.12	56	9795
B2L04240**	4	240	18.2	1.7	2.36	63	12585
B2L050015**	5	1.5	1.36	0.7	1.24	14	368
B2L050025**	5	2.5	1.76	0.7	1.24	15	432
B2L050040**	5	4	2.21	0.7	1.24	17	543
B2L050060**	5	6	2.71	0.7	1.24	18	679
B2L05010**	5	10	3.85	0.7	1.24	21	981
B2L05016**	5	16	4.8	0.7	1.24	24	1351
B2L05025**	5	25	5.85	0.9	1.32	28	1960
B2L05035**	5	35	6.9	0.9	1.4	31	2539
B2L05050**	5	50	8.1	1	1.48	35	3333
B2L05070**	5	70	9.7	1	1.48	39	4507
B2L05095**	5	95	11.4	1.1	1.56	44	6038

\* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below e.g. B2L020025BK = 2.5mm<sup>2</sup> Black

## COLOUR CODE

COLOUR	BLACK	GREEN
CODE	BK	GN

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
	IN CONDUIT	IN AIR	
1.5	31	24	12.1
2.5	40	31	7.41
4	52	41	4.61
6	65	53	3.08
10	87	72	1.83
16	113	96	1.15
25	146	130	0.727
35	176	160	0.524
50	208	195	0.387
70	256	247	0.268
95	307	305	0.193
120	349	355	0.153
150	391	407	0.124
185	442	469	0.0991
240	509	551	0.0754

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.