

**ELAND<sup>®</sup>**  
**CABLES**

## NYFGbY Cable



Eland Product Group: B2H

### APPLICATION

The NYFGbY power cable is suitable for underground installations, including those where mechanical protection is required due to harsh operating conditions.

### CHARACTERISTICS

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

**Test Voltage**  
3.5kV

**Temperature Rating**  
Maximum Operating: +70°C  
Maximum Short-Circuit: +160°C

**Minimum Bending Radius**  
12 x overall diameter

### CONSTRUCTION

**Conductor**  
Class 1 Solid copper  
Class 2 Stranded copper

**Insulation**  
PVC (Polyvinyl chloride)

**Filler**  
PVC (Polyvinyl chloride)

**Armour 1**  
SWA (Galvanised flat steel wire)

**Armour 2**  
Galvanized steel tape

**Outer Sheath**  
PVC (Polyvinyl chloride)

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

**Outer Sheath Colour**  
● Black

### STANDARDS

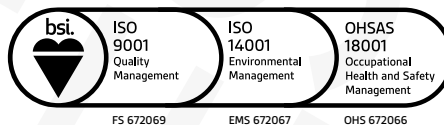
TS IEC 60502-1, VDE 027, IS 1516.1

Flame retardant according to EN 60332-1



### UKAS LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab<sup>®</sup>, a UKAS accredited ISO 17025 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<sup>®</sup> as meeting the requirements of the BSI RoHS Trusted Kitemark<sup>™</sup>.



## 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
B2H02010BK	2	10	3.9	1	1	19	815
B2H02016BK	2	16	4.7	1	1	21	1028
B2H02025BK	2	25	5.9	1.2	1	24	1378
B2H02035BK	2	35	6.9	1.2	1	26	1714
B2H02050BK	2	50	8.2	1.4	1.08	30	2209
B2H02070BK	2	70	9.7	1.4	1.16	33	2844
B2H02095BK	2	95	11.4	1.6	1.24	38	3706
B2H03010BK	3	10	3.9	1	1	20	967
B2H03016BK	3	16	4.8	1	1	22	1244
B2H03025BK	3	25	5.9	1.2	1	25	1699
B2H03035BK	3	35	6.9	1.2	1.08	28	2144
B2H03050BK	3	50	8.2	1.4	1.16	32	2780
B2H03070BK	3	70	9.7	1.4	1.24	36	3611
B2H03095BK	3	95	11.4	1.6	1.4	41	4728
B2H03120BK	3	120	13.1	1.6	1.4	44	5712
B2H03150BK	3	150	14.2	1.8	1.72	49	6807
B2H03185BK	3	185	15.8	2	1.8	54	8292
B2H03240BK	3	240	18.6	2.2	1.88	61	10742
B2H0316/10BK	3	16/10	4.8	1	1	23	1363
B2H03025/16BK	3	25/16	5.9	1.2	1	27	1868
B2H03035/16BK	3	35/16	6.9	1.2	1	29	2256
B2H03050/25BK	3	50/25	8.2	1.4	1.16	33	2973
B2H03070/35BK	3	70/35	9.7	1.4	1.24	37	3908
B2H03095/50BK	3	95/50	11.4	1.6	1.32	42	5145
B2H03120/70BK	3	120/70	13.1	1.6	1.48	47	6384
B2H03150/70BK	3	150/70	14.2	1.8	1.56	50	7450
B2H03185/95BK	3	185/95	15.8	2	1.64	55	9159
B2H03240/120BK	3	240/120	18.6	2.2	1.8	61	11479
B2H04010BK	4	10	3.9	1	1	21	1112
B2H04016BK	4	16	4.8	1	1	24	1453
B2H04025BK	4	25	5.9	1.2	1	27	2002
B2H04035BK	4	35	6.9	1.2	1.08	30	2505
B2H04050BK	4	50	8.2	1.4	1.16	34	3278
B2H04070BK	4	70	9.7	1.4	1.24	38	4286
B2H04095BK	4	95	11.4	1.6	1.4	44	5732
B2H04120BK	4	120	13.1	1.6	1.48	48	6944
B2H04150BK	4	150	14.2	1.8	1.64	53	8486
B2H04185BK	4	185	15.8	2	1.8	59	10360
B2H04240BK	4	240	18.6	2.2	1.96	67	13432
B2H05010BK	5	10	3.9	1	1	23	1299
B2H05016BK	5	16	4.8	1	1	26	1735
B2H05025BK	5	25	5.9	1.2	1.08	30	2460
B2H05035BK	5	35	6.9	1.2	1.16	34	3098
B2H05050BK	5	50	8.2	1.4	1.24	38	4053

## ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
		IN CONDUIT	IN AIR	
2	10	90	66	1.83
2	16	116	89	1.15
2	25	150	118	0.727
2	35	181	145	0.524
2	50	215	176	0.387
2	70	264	224	0.268
2	95	317	271	0.193
3	10	75	60	1.83
3	16	98	80	1.15
3	25	128	106	0.727
3	35	157	131	0.524
3	50	185	159	0.387
3	70	228	202	0.268
3	95	375	244	0.193
3	120	313	282	0.153
3	150	353	324	0.124
3	185	399	371	0.0991
3	240	464	436	0.0754
3	16/10	98	80	1.15/1.83
3	25/16	128	106	0.727/1.15
3	35/16	157	131	0.524/1.15
3	50/25	185	159	0.387/0.727
3	70/35	228	202	0.268/0.524
3	95/50	275	244	0.193/0.387
3	120/70	313	284	0.153/0.268
3	150/70	353	324	0.124/0.268
3	185/95	399	371	0.0991/0.193
3	240/120	464	436	0.0754/0.153
4	10	75	60	1.83
4	16	98	80	1.15
4	25	128	106	0.727
4	35	157	131	0.524
4	50	185	159	0.387
4	70	228	202	0.268
4	95	275	244	0.193
4	120	313	282	0.153
4	150	353	324	0.124
4	185	399	371	0.0991
4	240	464	436	0.0754
5	10	75	60	1.83
5	16	98	80	1.15
5	25	128	106	0.727
5	35	157	131	0.524
5	50	185	159	0.387

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.