

N2XFGbY Cable



Eland Product Group: B2J

APPLICATION

The N2XFGbY cable is suitable for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required where high-pulling stresses may occur during installation or operation offering.

CHARACTERISTICS

Voltage Rating U_o/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
PVC (Polyvinyl chloride)

Armour 1
SWA (Galvanised flat steel wire)

Armour 2
Galvanised 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

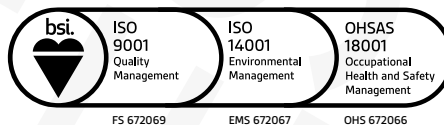
IEC 60502-1, VDE 0276-603

Flame retardant according to IEC 60332-1



UKAS LABORATORY TESTING

This product is subject to the Quality Assurance protocols of The Cable Lab[®], 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[®] as meeting the requirements of the BSI RoHS Trusted Kitemark[™].



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 OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B2J03010BK	3	10	3.9	0.7	1.24	19	922
B2J03016BK	3	16	4.8	0.7	1.24	21	1186
B2J03025BK	3	25	5.9	0.9	1.24	24	1655
B2J03035BK	3	35	6.9	0.9	1.32	27	2100
B2J03050BK	3	50	8.2	1	1.4	31	2724
B2J03070BK	3	70	9.7	1.1	1.48	35	3608
B2J03095BK	3	95	11.4	1.1	1.64	39	4637
B2J03120BK	3	120	13.1	1.2	1.72	44	5701
B2J03150BK	3	150	14.2	1.4	1.88	47	6779
B2J03185BK	3	185	15.8	1.6	2.04	53	8437
B2J03240BK	3	240	18.6	1.7	2.2	60	10889
B2J0316/10BK	3	16/10	4.8	0.7	1.24	23	1372
B2J03025/16BK	3	25/16	5.9	0.9	1.24	26	1890
B2J03035/16BK	3	35/16	6.9	0.9	1.32	28	2286
B2J03050/25BK	3	50/25	8.2	1	1.4	32	3017
B2J03070/35BK	3	70/35	9.7	1.1	1.56	37	3990
B2J03095/50BK	3	95/50	11.4	1.1	1.64	41	5160
B2J03120/70BK	3	120/70	13.1	1.2	1.8	46	6428
B2J03150/70BK	3	150/70	14.2	1.4	1.88	49	7525
B2J03185/95BK	3	185/95	15.8	1.6	2.04	55	9429
B2J03240/120BK	3	240/120	18.6	1.7	2.2	62	11956
B2J04010BK	4	10	3.9	0.7	1.24	20	1071
B2J04016BK	4	16	4.8	0.7	1.24	23	1400
B2J04025BK	4	25	5.9	0.9	1.32	27	1985
B2J04035BK	4	35	6.9	0.9	1.4	30	2530
B2J04050BK	4	50	8.2	1	1.48	34	3299
B2J04070BK	4	70	9.7	1.1	1.56	38	4398
B2J04095BK	4	95	11.4	1.1	1.72	43	5693
B2J04120BK	4	120	13.1	1.2	1.88	48	7041
B2J04150BK	4	150	14.2	1.4	1.96	52	8495
B2J04185BK	4	185	15.8	1.6	2.12	58	10564
B2J04240BK	4	240	18.6	1.7	2.36	66	13684
B2J04300BK	4	300	21.5	1.9	3.06	78	17628
B2J05010BK	5	10	3.9	0.7	1.24	23	1342
B2J05016BK	5	16	4.8	0.7	1.24	24	1715
B2J05025BK	5	25	5.9	0.9	1.32	30	2536
B2J05035BK	5	35	6.9	0.9	1.4	33	3209
B2J05050BK	5	50	8.2	1	1.48	37	4192

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
	IN CONDUIT	IN AIR	
10	346	355	1.83
16	390	407	1.15
25	441	469	0.727
35	511	551	0.524
50	580	638	0.387
70	86	73	0.268
95	111	96	0.193
120	143	130	0.153
150	390	407	0.124
185	441	469	0.0991
240	511	551	0.0754
300	580	638	0.0601

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.