

N2X2Y Cable



Eland Product Group: B2P

APPLICATION

The N2X2Y cable is mainly used in power stations, industrial installations and switchgears, as well as in local mains. Suitable for fixed installation underground, in interior premises, cable ducts, in the open air and in water under severe mechanical stress during installation and operation.

CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Temperature Rating
Operating temperature: -35°C to +90°C
Maximum conductor temperature: +90°C

Short Circuit Temperature
250°C

Minimum Bending Radius
Single core: 15 x overall diameter
Multi core: 12 x overall diameter

CONSTRUCTION

Conductor
RE: Class 1 round solid copper
RM: Class 2 round stranded copper
SM: Class 2 sector shaped stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Outer Sheath
HDPE (High-density polyethylene)

Core Identification
1 core: ● Black
3 core: ● Green/Yellow ● Blue ● Brown
4 core: ● Green/Yellow ● Brown ● Black ● Grey
5 core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour
● Black

STANDARDS

VDE 0276-603, HD 308 S2

ISO/IEC 17025 LAB TESTED

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 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 ²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B2P01010RE	1	10	RE	9	141
B2P01016RE	1	16	RE	12	301
B2P01025RM	1	25	RM	12	301
B2P01035RM	1	35	RM	13	397
B2P01050RM	1	50	RM	14	520
B2P01070RM	1	70	RM	16	725
B2P01095RM	1	95	RM	18	972
B2P01120RM	1	120	RM	20	1207
B2P01150RM	1	150	RM	22	1488
B2P01185RM	1	185	RM	25	1930
B2P01240RM	1	240	RM	26	2388
B2P01300RM	1	300	RM	29	2964
B2P01400RM	1	400	RM	32	3772
B2P03010RE	3	10	RE	17	529
B2P03016RE	3	16	RE	19	741
B2P03025RM	3	25	RM	23	1122
B2P03035RM	3	35	RM	26	1473
B2P03050SM	3	50	SM	26	1729
B2P03070SM	3	70	SM	30	2414
B2P03095SM	3	95	SM	33	3210
B2P03120SM	3	120	SM	37	3962
B2P03150SM	3	150	SM	41	4906
B2P03185SM	3	185	SM	45	6047
B2P03240SM	3	240	SM	51	7833
B2P04010RE	4	10	RE	18	642
B2P04016RE	4	16	RE	21	910
B2P04025RM	4	25	RM	25	1391
B2P04035RM	4	35	RM	28	1834
B2P04050SM	4	50	SM	29	2255
B2P04070SM	4	70	SM	33	3158
B2P04095SM	4	95	SM	37	4200
B2P04120SM	4	120	SM	41	5259
B2P04150SM	4	150	SM	46	6439
B2P04185SM	4	185	SM	51	7967
B2P04240SM	4	240	SM	57	10324
B2P05010RE	5	10	RE	20	767
B2P05016RE	5	16	RE	22	1100
B2P05025RM	5	25	RM	27	1676
B2P05035RM	5	35	RM	31	2266
B2P05050SM	5	50	SM	33	2877

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
			IN AIR	IN CONDUIT	
1	10	RE	99	136	1.83
1	16	RE	131	176	1.15
1	25	RM	177	229	0.727
1	35	RM	217	275	0.524
1	50	RM	265	326	0.387
1	70	RM	336	400	0.268
1	95	RM	415	480	0.193
1	120	RM	485	548	0.153
1	150	RM	557	616	0.124
1	185	RM	646	698	0.099
1	240	RM	774	815	0.075
1	300	RM	901	927	0.060
1	400	RM	1074	1139	0.047
3	10	RE	75	93	1.83
3	16	RE	99	120	1.15
3	25	RM	136	157	0.727
3	35	RM	168	190	0.524
3	50	SM	196	221	0.387
3	70	SM	247	270	0.268
3	95	SM	304	323	0.193
3	120	SM	353	367	0.153
3	150	SM	407	412	0.124
3	185	SM	471	466	0.099
3	240	SM	555	536	0.075
4	10	RE	77	94	1.83
4	16	RE	98	112	1.15
4	25	RM	133	145	0.727
4	35	RM	162	174	0.524
4	50	SM	197	206	0.387
4	70	SM	250	254	0.268
4	95	SM	308	305	0.193
4	120	SM	359	548	0.153
4	150	SM	412	392	0.124
4	185	SM	475	444	0.099
4	240	SM	561	517	0.075
5	10	RE	80	96	1.83
5	16	RE	110	126	1.15
5	25	RM	146	162	0.727
5	35	RM	181	196	0.524
5	50	SM	219	230	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.