N1XV-R/U Cable

Eland Product Group: B2Y

APPLICATION

The N1XV-R/U are mainly used for power distribution in power stations, industrial installation and switchgears, as well as in local mains. For fixed installation underground, in interior premises, cable ducts, in the open air and in water if no risk of any mechanical damage is to be expected.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Temperature Rating
Minimum laying temperature: -5°C
Operating temperature: -30°C to +90°C
Maximum Conductor temperature: +90°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
PVC (Polyvinyl chloride) UV resistant

Core identification
1 core: Black
4 core: Black Brown Grey Green/Yellow

Outer Sheath Colour
Black

STANDARDS

HD308 S2, EN 60228

Flame retardant according to EN 60332-1-2

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 2015/65/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 mm²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B2Y01010BK	1	10	RE	8.9	190
B2Y01016BK	1	16	RE	10.0	230
B2Y01025BK	1	25	RM	12.1	350
B2Y01035BK	1	35	RM	13.1	445
B2Y01050BK	1	50	RM	14.6	575
B2Y01070BK	1	70	RM	16.5	780
B2Y01095BK	1	95	RM	18.2	1030
B2Y01120BK	1	120	RM	19.9	1280
B2Y01150BK	1	150	RM	22.1	1560
B2Y01185BK	1	185	RM	24.2	1920
B2Y01240BK	1	240	RM	26.9	2500
B2Y01300BK	1	300	RM	29.4	3100
B2Y04016BK	4	16	RM	22.0	1065
B2Y04025BK	4	25	RM	26.7	1580
B2Y04035BK	4	35	RM	29.3	2060
B2Y04050BK	4	50	SM	34.4	2,470
B2Y04070BK	4	70	SM	38.1	3330
B2Y04095BK	4	95	SM	43.2	4500
B2Y04120BK	4	120	SM	46.6	5510
B2Y04150BK	4	150	SM	48.6	6690
B2Y04185BK	4	185	SM	50.4	7340
B2Y04240BK	4	240	SM	55.2	9610

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ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR TYPE	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
			IN AIR	IN GROUND	
1	10	RE	99	136	1.830
1	16	RE	131	176	1.150
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
4	16	RM	98	112	1.150
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	348	0.153
4	150	SM	412	392	0.124
4	185	SM	475	444	0.099
4	240	SM	564	517	0.075