ELAND CABLES

NAYRY-J/O Cable

Eland Product Group: B3F

APPLICATION

The NAYRY-J/O is 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 high protection against mechanical damage is required.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Test Voltage
4kV/50Hz

Temperature Rating
Laying temperature: min -5°C
Operating temperature: -50°C to +70°C
Maximum conductor temperature: +70°C

Short Circuit Temperature
160°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
RM: Class 2 round stranded aluminium
SM: Class 2 sector shaped stranded aluminium

Insulation
PVC (Polyvinyl chloride)

Armour
SWA (Galvanized Steel Wire Armour)

Tape
Plastic Tape

Outer Sheath
UV resistant PVC (Polyvinyl chloride)

Core identification
3 core + earth: ● Brown ● Black ● Grey ◐ Green/Yellow

Outer Sheath Colour
● Black

Note: Available without earth (NAYRY-O) on request

STANDARDS

DIN VDE 0276-603 (HD603), HD 308 S2

Flame retardant according to EN 50265-2-1, IEC/EN 60332-1

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.

ISO/IEC 17025 Accredited Testing Laboratory — IECEE CBTL Accredited Testing Laboratory

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

SCIENCE BASED TARGETS — BUSINESS AMBITION FOR 1.5°C

REGULATORY COMPLIANCE

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

CPR COMPLIANT EN 50575

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®.

RoHS REACH CE

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B3F03035/16BK	3+1	35+16	SM/RM	31.0	1460
B3F03050/25BK	3+1	50+25	SM/RM	35.7	1910
B3F03070/35BK	3+1	70+35	SM/RM	39.6	2460
B3F03095/50BK	3+1	95+50	SM/RM	46.0	3035
B3F03120/70BK	3+1	120+70	SM/RM	49.0	3785
B3F03150/95BK	3+1	150+95	SM/RM	54.5	4610
B3F03185/95BK	3+1	185+95	SM/RM	59.8	5425
B3F03240/120BK	3+1	240+120	SM/RM	68.9	6575

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
	IN AIR	IN GROUND	
35+16	101	123	0.868/1.910
50+25	121	145	0.641/1.200
70+35	155	180	0.443/0.868
95+50	189	216	0.320/0.641
120+70	220	246	0.253/0.443
150+95	249	276	0.206/0.320
185+95	287	313	0.164/0.320
240+120	339	362	0.125/0.253

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