



# N2X(F)KLD2Y

High Voltage Cables

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## DESCRIPTION

**Engineering Overview** The N2X(F)KLD2Y-high-voltage-cables-2 series is engineered to meet the rigorous demands of high-voltage power transmission with a focus on durability, efficiency, and safety. This series is ideal for applications requiring high dielectric strength and excellent thermal cycling resistance.

**Technical Performance and Installation** This cable series is designed to optimize both electrical and thermal performance, making it suitable for a variety of installation environments: High ampacity to support increased power transmission over long distances without significant power losses. Excellent fault current withstand capability, ensuring reliability and safety in the event of abnormal current flow. Designed for direct burial, trefoil formation, or cable tray mounting, providing flexibility in installation methods to suit different site conditions.

**Compliance and EMC Considerations** The cable's construction adheres to stringent IEC standards and carries the CE marking, affirming its compliance with the Construction Products Regulation (CPR classification). Furthermore, it is designed to minimize electromagnetic interference: Advanced insulation and shielding techniques reduce induced voltage, enhancing electromagnetic compatibility (EMC). Metallic screens incorporated into the cable design help in mitigating external electromagnetic influences, ensuring stable and uninterrupted operation.

## TECHNICAL DATA

|                    |           |
|--------------------|-----------|
| Rated voltage (kV) | 64/110 kV |
|--------------------|-----------|



**CROSS-SECTION DATA — 64/110 kV**

| Cores & CS | Cond. | RI [Ohm/km] | Wi [mm] | Rbv [mm] | Ø [mm] | G [kg/km] |
|------------|-------|-------------|---------|----------|--------|-----------|
| 1x240RM    | Cu    | 0.1         | 16.5    | 2.2      | 86     | 7040      |
| 1x300RM    | Cu    | 0.08        | 15.5    | 2.2      | 86     | 7550      |
| 1x400RM    | Cu    | 0.06        | 14.5    | 2.2      | 88     | 8380      |
| 1x500RM    | Cu    | 0.05        | 14      | 2.2      | 91     | 9530      |
| 1x630RM    | Cu    | 0.04        | 14      | 2.4      | 95     | 11190     |
| 1x800RM    | Cu    | 0.03        | 14      | 2.5      | 100    | 13160     |
| 1x1000RM   | Cu    | 0.03        | 14      | 2.6      | 104    | 15380     |
| 1x1200RMS  | Cu    | 0.02        | 14      | 2.8      | 110    | 17790     |
| 1x1400RMS  | Cu    | 0.02        | 14      | 2.9      | 115    | 19870     |
| 1x1600RMS  | Cu    | 0.02        | 14      | 3        | 119    | 22210     |
| 1x1800RMS  | Cu    | 0.02        | 14      | 3.1      | 122    | 24720     |
| 1x2000RMS  | Cu    | 0.02        | 14      | 3.1      | 124    | 26340     |
| 1x2500RMS  | Cu    | 0.01        | 14.5    | 3.3      | 134    | 31880     |