



N2X(F)K2Y

High Voltage Cables

No image available

DESCRIPTION

Engineering Overview The N2X(F)K2Y high-voltage cable series is tailored for robust performance in high-voltage power systems, featuring copper conductors and cross-linked polyethylene (XLPE) insulation. This combination ensures high dielectric strength and excellent thermal cycling resistance, crucial for maintaining integrity and functionality over long operational periods.

Technical Performance and Installation Designed to support a wide range of industrial applications, the N2X(F)K2Y cable series excels in environments requiring high ampacity and effective fault current management. The cables' construction supports efficient heat dissipation and reduces the risk of thermal degradation even under high load conditions. Optimal ampacity to support increased power transmission requirements. Enhanced fault current withstand capability to ensure reliability and safety. Superior dielectric strength, facilitated by high-quality XLPE insulation. Installation techniques such as trefoil formation, direct burial, and cable tray mounting are compatible with this series, providing flexibility and ease of deployment in varied operational landscapes.

Compliance and Electromagnetic Compatibility The N2X(F)K2Y series adheres to stringent IEC standards and meets CPR classification requirements, ensuring compliance with international safety and quality benchmarks. Additionally, the cables are designed to minimize electromagnetic interference, enhancing electromagnetic compatibility (EMC) and reducing induced voltages, which is critical in densely packed power installations. Robust metallic screening to mitigate EMC issues and manage fault currents effectively. CE marking confirms that the cable series meets the essential requirements of relevant European directives.

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]
1x150RM	Cu	0.16	18	1.4	67	8300
1x185RM	Cu	0.13	17	1.3	66	8400
1x240RM	Cu	0.1	16.5	1.4	67	9030
1x300RM	Cu	0.08	15.5	1.4	67	9540
1x400RM	Cu	0.06	14.5	1.4	69	10410
1x500RM	Cu	0.05	14	1.4	71	11590
1x630RM	Cu	0.04	14	1.5	75	13470
1x800RM	Cu	0.03	14	1.6	80	15590
1x1000RM	Cu	0.03	14	1.7	84	17980
1x1200RMS	Cu	0.02	14	1.8	89	20530
1x1400RMS	Cu	0.02	14	1.9	94	22780
1x1600RMS	Cu	0.02	14	2	98	25280
1x1800RMS	Cu	0.02	14	2	102	27940
1x2000RMS	Cu	0.02	14	2.1	103	29610
1x2500RMS	Cu	0.01	14.5	2.2	112	35400
1x3000RMS	Cu	0.01	14.5	2.4	121	42420