

N2XCK2Y 1 X (300 - 2000) mm² 87/150 (170) kV

Cu / XLPE / CWS / LS / HDPE

(Copper Conductor, XLPE Insulated, Copper Wire Screen, Lead Sheathed, HDPE Sheathed)

Standard Specification : IEC 60840 : 2011

Application :

Power Cable : used in the underground transmission lines between two sub station units of an electricity grid, transformer of a generator unit to indoor or outdoor sub station. These Insulated cable circuits may also be used in conjunction with overhead lines.

Conductor Shape

300 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

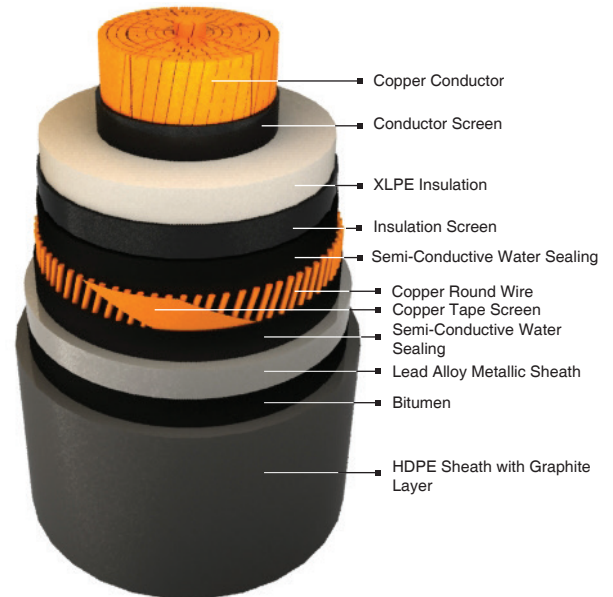
1000 - 2000 sqmm supplied in segmented compress stranded (sc) conductor shape

Short Circuit Capacity

Screen short circuit capacity will be submitted upon request

Construction Data

Nom. Cross Section Area	Thickness				Overall Diameter	Cable Weight
	Conductor Screen	Insulation	Insulation Screen	Outer Sheath		
	Nom.	Nom.	Nom.	Nom.	Approx.	Approx.
mm ²	mm	mm	mm	mm	mm	kg/km
300	1.3	18.0	1.3	3.5	87	16,276
400	1.3	18.0	1.3	3.6	90	17,706
500	1.3	18.0	1.3	3.7	93	19,560
630	1.3	18.0	1.3	3.7	95	21,235
800	1.3	18.0	1.3	3.9	99	23,127
1000	1.5	18.0	1.3	4.0	106	26,814
1200	1.5	18.0	1.3	4.2	111	30,520
1600	1.5	18.0	1.3	4.3	119	36,342
2000	1.5	18.0	1.3	4.6	127	40,994



Electrical Data

Conductor		Capacitance	Current - Carrying Capacity at 30° C *			
			In Ground		In Air	
			Trefoil Max.	Flat (s=1D) Max.	Trefoil Max.	Flat (s=1D) Max.
Nom. Cross Section (mm ²)	DC Resistance at 20°C Max. (Ω/km)	Per Phase Max. (μF/km)	(A)	(A)	(A)	(A)
300	0.0601	0.150	589	610	756	842
400	0.0470	0.160	667	695	867	973
500	0.0366	0.173	754	793	995	1128
630	0.0283	0.194	847	902	1138	1308
800	0.0221	0.209	939	1015	1282	1497
1000	0.0176	0.238	1034	1138	1451	1728
1200	0.0151	0.252	1091	1215	1550	1868
1600	0.0113	0.282	1197	1360	1738	2137
2000	0.0090	0.302	1279	1478	1892	2362

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information