



Construction

- 1) Conductor: Solid or stranded circular conductors made of Copper, Class 1 or Class 2
- 2) Conductor Screen: Semi-conducting, non-metallic compound
- 3) Insulation: XLPE (Cross-linked polyethylene)
- 4) Insulation Screen: Semi-conducting, non-metallic compound
- 5) Metallic Screen: Copper tape
- 6) Filler: Non-hygroscopic material used
- 7) Binder Tape: Non-hygroscopic material used
- 8) Inner Covering: PVC (Polyvinyl chloride)
- 9) Armour: Steel wire armour for protection
- 10) Binder Tape: Non-hygroscopic material used
- 11) Outer Sheath: PVC (Polyvinyl chloride)

Applications

N2XSERY cables are widely used in urban power grids, industrial plants, power plants, public buildings and outdoor environments where harsh laying conditions are required. It is also particularly suitable for applications requiring high mechanical strength and protection, such as direct burial, tunnel laying and in water.

Standards

DIN VDE 0276-620
 HD 620
 EN 60228
 IEC 60502-2

Specification

Maximum Conductor Temperature:	90
Max. temperature during short circuit($\leq 5S$)	250
Minimum Bending Radius	15x

Technical Data

Nominal cross-sectional area (mm ²)	Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Cable Diameter approx(mm)	Weight approx. (kg/km)	Max. DC resistance conductor (20°C) (/km)	Current carrying capacity	
N2XSERY - 6/10kV						In Air (A)	In Ground(A)
3X25	3.4	2.4	48.1	4089	0.727	84	95
3X35	3.4	2.5	50.5	4604	0.524	102	116
3X50	3.4	2.6	53.7	5288	0.387	123	133
3X70	3.4	2.7	57.5	6234	0.268	154	168
3X95	3.4	2.9	61.6	7368	0.193	186	200
3X120	3.4	3	65	8418	0.153	214	224
3X150	3.4	3.1	68.5	9515	0.124	245	256
3X185	3.4	3.2	72.5	11005	0.0991	277	287
3X240	3.4	3.4	79.2	14048	0.0754	329	336
3X300	3.4	3.6	84.5	16323	0.0601	375	378
3X400	3.4	3.8	91.6	19556	0.047	427	427
N2XSERY - 8.7/15kV							
3X25	4.5	2.6	54.5	4723	0.727	84	95
3X35	4.5	2.7	55.8	5256	0.524	102	116
3X50	4.5	2.8	59	5965	0.387	123	133
3X70	4.5	2.9	62.9	6940	0.268	154	168
3X95	4.5	3	66.7	8076	0.193	186	200
3X120	4.5	3.1	70.2	9151	0.153	214	224
3X150	4.5	3.2	73.6	10273	0.124	245	256
3X185	4.5	4.5	79.2	12717	0.0991	277	287
3X240	4.5	3.6	84.5	14927	0.0754	329	336
3X300	4.5	3.7	89.7	17267	0.0601	375	378
3X400	4.5	4	97	20531	0.047	427	427
N2XSERY - 12/20kV							
3X35	5.5	2.9	66.2	6136	0.524	98	104
3X50	5.5	3	68.7	6745	0.387	114	124
3X70	5.5	3.1	73	7804	0.268	143	153
3X95	5.5	3.2	77	8971	0.193	172	185
3X120	5.5	3.4	82.9	11035	0.153	198	208
3X150	5.5	3.5	86.2	12279	0.124	228	237
3X185	5.5	3.6	90.3	13845	0.0991	257	267
3X240	5.5	3.8	96	16140	0.0754	302	309
3X300	5.5	4	101.2	18657	0.0601	345	348
3X400	5.5	4.2	107.8	21868	0.047	400	393
N2XSERY - 18/30kV							
3X35	8	3.3	81	8648	0.524	172	154
3X50	8	3.4	83.4	9303	0.387	205	181
3X70	8	3.6	87.7	10483	0.268	253	220
3X95	8	3.7	91.7	11812	0.193	307	263
3X120	8	3.8	94.9	12997	0.153	352	298
3X150	8	3.9	98.2	14291	0.124	397	332
3X185	8	4	102.3	15915	0.0991	453	374
3X240	8	4.2	108	18293	0.0754	529	431
3X300	8	4.4	113.2	20886	0.0601	599	482
3X400	8	4.6	119.8	24193	0.047	683	541