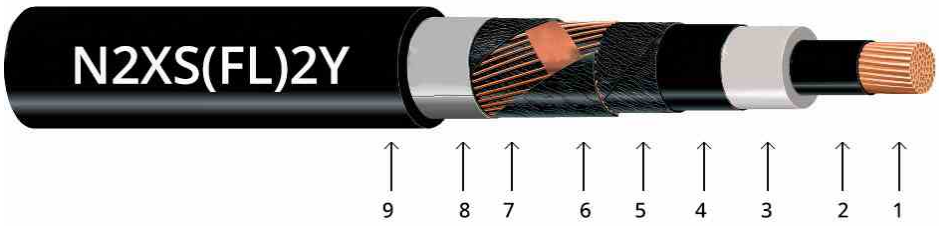
N2XS(FL)2Y

Medium Voltage Power Cables
6/10 kV - 12/20 kV - 18/30 kV - 20.8/36 kV

Copper power cable with XLPE insulation

HALLEY CABLES

www.halleycables.com



Construction:

1. Stranded bare copper.
2. Inner semi-conductive layer.
3. XLPE insulation (cross-linked polyethylene).
4. Outer semi-conductive layer.
5. Semi-conductive swellable tape.
6. Copper wire screen.
7. Swellable tape ensuring longitudinal and radial water seal.
8. PE coated aluminium tape.
9. PE outer jacket.

Technical data and tests:

Rated voltage	: 6/10 kV; 12/20 kV; 18/30 kV; 20,8/36 kV.
Cable standard	: DIN VDE 0267-620.
Operating temperature, short circuit	: 250° C.
Max. conductor temperature in service	: 90° C.
Minimum installation temperature	: -20° C.
Halogen free	: EN 60332-1.
Lead free.	
UV stability.	

Applications:

This medium voltage power cable is for static application in ground, within and outside facilities, outdoor, in cable canals, in dry areas or in water. PE sheath secures increased mechanical resistance during and after laying. Swellable tape blocks water spreading within the cable. Due to its very low factor of dielectric loss, which remains constant over its entire operating lifetime, and owing to excellent insulation property of XLPE-material, firmly longitudinally spliced with inner and external screen of semi-conductive material (extruded in one process), the cable has a high operating reliability. This cable can be used in switching blocks, transformer stations, industrial plants and in electric power plants. To avoid the effects of external impact, the adhering semi-conductive layer extruded between conductor and insulation, along with concentric copper conductor, secures restriction of electric field and resistance to partial discharges.

DIMENSIONS 6/10 kV

No. of cores x cross section mm²	Outer diameter approx. mm	Diameter over insulation mm	Weight kg/km	Conductor DC resistance at 20° C	Metal number AL kg/km	Metal number CU kg/km	Current carrying capacity in ground A	Current carrying capacity in air A	Capacitance µF/km	Inductance mH/km
1 x 70/16	27,9	17,7	1170	0,2680	0	854	266	289	0,28	0,4
1 x 95/16	29,6	19,4	1436	0,1930	0	1094	318	350	0,31	0,38
1 x 120/16	31,1	20,8	1681	0,1530	0	1334	360	403	0,36	0,37
1 x 150/25	32,4	22,2	2031	0,1240	0	1723	401	455	0,37	0,36
1 x 185/25	34,0	23,8	2389	0,0991	0	2059	452	522	0,4	0,34
1 x 240/25	36,4	26,2	2945	0,0754	0	2587	523	615	0,45	0,33
1 x 300/25	38,9	28,6	3538	0,0601	0	3163	587	702	0,49	0,32
1 x 400/35	42,0	31,7	4470	0,0470	0	4234	658	807	0,56	0,31
1 x 500/35	44,7	34,4	5493	0,0366	0	5194	732	912	0,61	0,29

Any other sizes available upon request.

CE RoHS

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DIMENSIONS 12/20 kV

No. of cores x cross section mm²	Outer diameter approx. mm	Diameter over insulation mm	Weight kg/km	Conductor DC resistance at 20° C	Metal number AL kg/km	Metal number CU kg/km	Current carrying capacity in ground A	Current carrying capacity in air A	Capacitance µF/km	Inductance mH/km
1 x 70/16	32,1	21,9	1336	0,2680	0	854	270	293	0,19	0,43
1 x 95/16	33,8	23,6	1611	0,1930	0	1094	322	354	0,21	0,41
1 x 120/16	35,2	25,0	1864	0,1530	0	1334	364	408	0,23	0,39
1 x 150/25	36,6	26,4	2223	0,1240	0	1723	406	461	0,25	0,38
1 x 185/25	38,2	28,0	2593	0,0991	0	2059	458	527	0,27	0,37
1 x 240/25	40,6	30,4	3166	0,0754	0	2587	529	621	0,3	0,35
1 x 300/25	43,1	32,8	3770	0,0601	0	3163	595	708	0,33	0,34
1 x 400/35	45,8	35,5	4698	0,0470	0	4234	667	808	0,37	0,33
1 x 500/35	48,9	38,6	5762	0,0366	0	5194	743	918	0,4	0,32

DIMENSIONS 18/30 kV

No. of cores x cross section mm²	Outer diameter approx. mm	Diameter over insulation mm	Weight kg/km	Conductor DC resistance at 20° C	Metal number AL kg/km	Metal number CU kg/km	Current carrying capacity in ground A	Current carrying capacity in air A	Capacitance µF/km	Inductance mH/km
1 x 70/16	37,1	26,9	1571	0,2680	0	854	273	296	0,15	0,46
1 x 95/16	38,8	28,6	1860	0,1930	0	1094	326	358	0,16	0,44
1 x 120/16	40,2	30,0	2119	0,1530	0	1334	369	412	0,18	0,42
1 x 150/25	41,6	31,4	2489	0,1240	0	1723	411	464	0,19	0,4
1 x 185/25	43,2	33,0	2869	0,0991	0	2059	463	531	0,2	0,39
1 x 240/25	45,6	35,4	3459	0,0754	0	2587	536	624	0,22	0,37
1 x 300/25	48,0	37,8	4081	0,0601	0	3163	602	710	0,24	0,36
1 x 400/35	50,8	40,5	4990	0,0470	0	4234	677	815	0,27	0,34
1 x 500/35	54,1	43,6	6134	0,0366	0	5194	754	920	0,29	0,34

DIMENSIONS 20,8/36 kV

No. of cores x cross section mm²	Outer diameter approx. mm	Diameter over insulation mm	Weight kg/km	Conductor DC resistance at 20° C	Metal number AL kg/km	Metal number CU kg/km	Current carrying capacity in ground A	Current carrying capacity in air A	Capacitance µF/km	Inductance mH/km
1 x 70/16	38,0	28,5	1608	0,2680	0	854	296	0,14	0,47	-
1 x 95/16	39,6	30,2	1898	0,1930	0	1094	358	0,15	0,44	-
1 x 120/16	41,3	31,6	2175	0,1530	0	1334	412	0,16	0,43	-
1 x 150/25	42,6	33,0	2543	0,1240	0	1723	464	0,18	0,41	-
1 x 185/25	44,4	34,6	2939	0,0991	0	2059	531	0,19	0,4	-
1 x 240/25	47,0	37,0	3548	0,0754	0	2587	624	0,21	0,38	-
1 x 300/25	49,5	39,4	4176	0,0601	0	3163	710	0,23	0,37	-
1 x 400/35	52,6	42,1	5160	0,0470	0	4234	815	0,25	0,35	-
1 x 500/35	55,9	45,2	6273	0,0366	0	5194	920	0,27	0,34	-

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