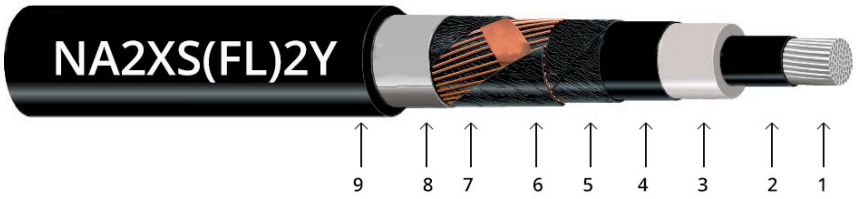
NA2XS(FL)2Y

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

Aluminium power cable with XLPE insulation



Construction:

1. Stranded aluminium conductor.
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.
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 aluminium 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	765	0,4430	203	182	207	224	0,28	0,4
1 x 95/16	29,6	19,4	871	0,3200	276	182	247	272	0,31	0,38
1 x 120/16	31,1	20,8	973	0,2530	348	182	280	314	0,36	0,37
1 x 150/25	32,4	22,2	1160	0,2060	435	283	313	355	0,37	0,36
1 x 185/25	34,0	23,8	1295	0,1640	537	283	354	408	0,4	0,34
1 x 240/25	36,4	26,2	1492	0,1250	696	283	412	484	0,45	0,33
1 x 300/25	38,9	28,6	1724	0,1000	870	283	464	553	0,49	0,32
1 x 400/35	42,0	31,7	2128	0,0778	1160	394	527	644	0,56	0,31
1 x 500/35	44,7	34,4	2495	0,0605	1450	394	593	737	0,61	0,29
1 x 630/35	48,3	38,0	2969	0,0469	1827	394	667	842	0,65	0,28

Any other sizes available upon request.

NA2XS(FL)2Y

HALLEY CABLES, Str. Siderurgistilor, nr. 9, 800364, Galati, Romania
Tel. +40 236 319 000 Fax. +40 236 319 085

The above values correspond to the manufacturer's specifications and are not guaranteed.
Created by HALLEY CABLES SRL August 2012.

NA2XS(FL)2Y

Medium Voltage Power Cables

6/10 kV - 12/20 kV - 18/30 kV - 20.8/36 kV

Aluminium power cable with XLPE insulation

HALLEY CABLES

www.halleycables.com

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	930	0,4430	203	182	209	227	0,19	0,43
1 x 95/16	33,8	23,6	1047	0,3200	276	182	249	275	0,21	0,41
1 x 120/16	35,2	25,0	1156	0,2530	348	182	284	317	0,23	0,39
1 x 150/25	36,6	26,4	1353	0,2060	435	283	317	359	0,25	0,38
1 x 185/25	38,2	28,0	1499	0,1640	537	283	358	411	0,27	0,37
1 x 240/25	40,6	30,4	1713	0,1250	696	283	417	488	0,3	0,35
1 x 300/25	43,1	32,8	1957	0,1000	870	283	469	557	0,33	0,34
1 x 400/35	45,8	35,5	2357	0,0778	1160	394	533	645	0,37	0,33
1 x 500/35	48,9	38,6	2764	0,0605	1450	394	600	739	0,4	0,32
1 x 630/35	52,5	42,2	3257	0,0469	1827	394	676	845	0,43	0,31

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	1166	0,4430	203	182	212	230	0,15	0,46
1 x 95/16	38,8	28,6	1296	0,3200	276	182	253	278	0,16	0,44
1 x 120/16	40,2	30,0	1411	0,2530	348	182	287	320	0,18	0,42
1 x 150/25	41,6	31,4	1618	0,2060	435	283	321	361	0,19	0,4
1 x 185/25	43,2	33,0	1776	0,1640	537	283	362	414	0,2	0,39
1 x 240/25	45,6	35,4	2007	0,1250	696	283	422	489	0,22	0,37
1 x 300/25	48,0	37,8	2268	0,1000	870	283	474	558	0,24	0,36
1 x 400/35	50,8	40,5	2649	0,0778	1160	394	540	647	0,27	0,34
1 x 500/35	54,1	43,6	3136	0,0605	1450	394	608	740	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	1203	0,4430	203	182	230	0,14	0,47	-
1 x 95/16	39,6	30,2	1333	0,3200	276	182	278	0,15	0,44	-
1 x 120/16	41,3	31,6	1467	0,2530	348	182	320	0,16	0,43	-
1 x 150/25	42,6	33,0	1673	0,2060	435	283	361	0,18	0,41	-
1 x 185/25	44,4	34,6	1845	0,1640	537	283	414	0,19	0,4	-
1 x 240/25	47,0	37,0	2095	0,1250	696	283	489	0,21	0,38	-
1 x 300/25	49,5	39,4	2362	0,1000	870	283	558	0,23	0,37	-
1 x 400/35	52,6	42,1	2819	0,0778	1160	394	647	0,25	0,35	-
1 x 500/35	55,9	45,2	3275	0,0605	1450	394	740	0,27	0,34	-

Any other sizes available upon request.

CE RoHS

NA2XS(FL)2Y