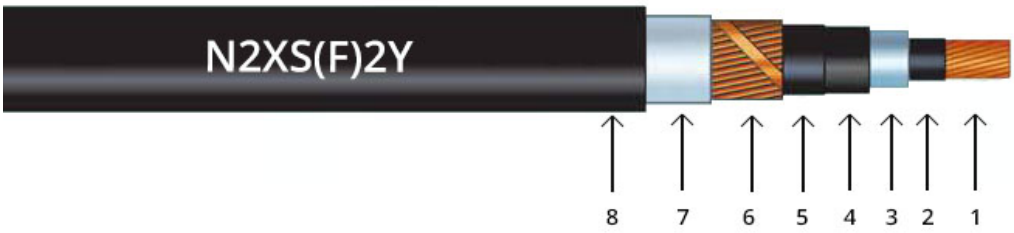
N2XS(F)2Y

Medium voltage power cables
6/10 kV - 12/20 kV - 18/30 kV - 20.8/36 kV

Copper conductor, medium voltage power cables with XLPE insulation



Construction:

1. Stranded (RM) bare copper.
2. Inner layer of semi-conducting material.
3. Core insulation of cross-linked polyethylene.
4. Outer layer of semi-conducting material.
5. Swellable tape ensuring longitudinal water seal.
6. Screen of copper wires.
7. Anti-twist tape.
8. Outer sheath of polyethylene (PE).

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	26,8	17,7	1111	0,2680	0	854	269	292	0,28	0,4
1 x 95/16	28,4	19,4	1373	0,1930	0	1094	321	354	0,31	0,38
1 x 120/16	29,9	20,8	1616	0,1530	0	1334	364	407	0,36	0,37
1 x 150/25	31,2	22,2	1962	0,1240	0	1723	405	460	0,37	0,36
1 x 185/25	32,8	23,8	2318	0,0991	0	2059	457	527	0,4	0,34
1 x 240/25	35,2	26,2	2870	0,0754	0	2587	528	621	0,45	0,33
1 x 300/25	37,7	28,6	3457	0,0601	0	3163	593	709	0,49	0,32
1 x 400/35	40,8	31,7	4383	0,0470	0	4234	665	815	0,56	0,31
1 x 500/35	43,5	34,4	5403	0,0366	0	5194	739	921	0,61	0,29

Any other sizes available upon request.

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Created by HALLEY CABLES SRL August 2012.

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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	31,0	21,9	1270	0,2680	0	854	273	296	0,19	0,43
1 x 95/16	32,6	23,6	1543	0,1930	0	1094	325	358	0,21	0,41
1 x 120/16	34,1	25,0	1792	0,1530	0	1334	368	412	0,23	0,39
1 x 150/25	35,4	26,4	2149	0,1240	0	1723	410	466	0,25	0,38
1 x 185/25	37,0	28,0	2516	0,0991	0	2059	463	532	0,27	0,37
1 x 240/25	39,4	30,4	3082	0,0754	0	2587	534	627	0,3	0,35
1 x 300/25	41,9	32,8	3684	0,0601	0	3163	601	715	0,33	0,34
1 x 400/35	44,6	35,5	4606	0,0470	0	4234	674	816	0,37	0,33
1 x 500/35	47,7	38,6	5663	0,0366	0	5194	750	927	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	36,0	26,9	1493	0,2680	0	854	276	299	0,15	0,46
1 x 95/16	37,6	28,6	1780	0,1930	0	1094	329	362	0,16	0,44
1 x 120/16	39,1	30,0	2038	0,1530	0	1334	373	416	0,18	0,42
1 x 150/25	40,4	31,4	2405	0,1240	0	1723	415	469	0,19	0,4
1 x 185/25	42,0	33,0	2783	0,0991	0	2059	468	536	0,2	0,39
1 x 240/25	44,4	35,4	3367	0,0754	0	2587	541	630	0,22	0,37
1 x 300/25	46,9	37,8	3986	0,0601	0	3163	608	717	0,24	0,36
1 x 400/35	49,6	40,5	4929	0,0470	0	4234	684	823	0,27	0,34
1 x 500/35	52,9	43,6	6027	0,0366	0	5194	762	929	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	37,6	28,5	1574	0,2680	0	854	299	0,14	0,47	-
1 x 95/16	39,2	30,2	1862	0,1930	0	1094	362	0,15	0,44	-
1 x 120/16	40,7	31,6	2126	0,1530	0	1334	416	0,16	0,43	-
1 x 150/25	42,0	33,0	2495	0,1240	0	1723	469	0,18	0,41	-
1 x 185/25	43,6	34,6	2876	0,0991	0	2059	536	0,19	0,4	-
1 x 240/25	46,0	37,0	3466	0,0754	0	2587	630	0,21	0,38	-
1 x 300/25	48,5	39,4	4092	0,0601	0	3163	717	0,23	0,37	-
1 x 400/35	51,4	42,1	5055	0,0470	0	4234	823	0,25	0,35	-
1 x 500/35	54,7	45,2	6162	0,0366	0	5194	929	0,27	0,34	-

Any other sizes available upon request.

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