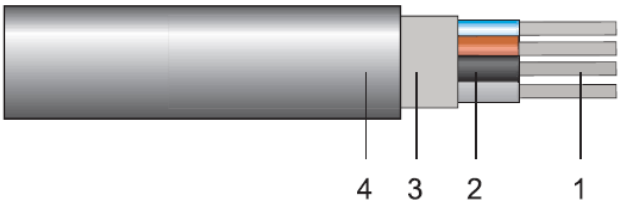
AC2XH

Low voltage power cables (0.6/1 kV)

Aluminium conductor low voltage power cable, with XLPE insulation, PE sheath, no emission of halogens, low emssion of smoke (LSZH)



Construction:

1. Conductor : aluminium, class 1 or class 2, according to EN 60228.
2. Insulation : cross-linked polyethylene (XLPE) 2XI1 type, according to HD 604.
3. Internal sheath
4. External sheath : thermoplastic PE with low emission of smoke and corosive gases (HFFR), HM4 type, according to HD 604 .

Technical data and tests:

Construction standard	: VDE 0276-604 (cables type NA2XH).
Nominal tension Uo /U(Um)	: 0.6 /1 (1.2) kV.
Min. cable temperature (ext. sheath)	: installation : - 5° C.
	in service : -40° C.
Max. allowed temp. on conductor,	
under optimal functioning conditions	:+90° C
short circuit (max. 5 s)	: 250° C.
Test voltage	: 4 kV, 50 Hz, for 5 minutes.
Flame retardancy	: EN 50266-2-4, category C and EN 60332-1-2.
Corosive gases	: EN 50267-2-2: pH ≥ 4,3 conductivity ≤ 100 µS/cm^{-1}.
Smoke density	: EN 61034 : light permeability ≥ 60%.
Minimum bending radius	: 15 x external diameter, for monowire cables.
	12 x external diameter, for multiwire cables.
Conductor symbols	: ru - round monowire conductor (class 1);
	sm - sector shaped stranded conductor (class 2);
	rm - round stranded conductor (class 2).
	Upon request, cables with flexible conductors can be produced (class 5).

Applications:

These cables are suited for fixed electrical installations in public buildings, train stations, power stations, metro stations, airports, performance venues, supermarkets, hospitals, etc. When burning, the cables do not release toxic or corosive gases and have low smoke emissions. Cables with only one conductor must not be used in alternating current.

AC2XH

HALLEY CABLES

Low voltage power cables (0.6/1 kV)

Aluminium conductor low voltage power cable, with XLPE insulation, PE sheath, no emission of halogens, low emssion of smoke (LSZH)

DIMENSIONS

No. conductors x nominal cross section mm²	Insulation thickness mm	Outer sheath thickness mm	External diameter (approx.) nominal mm	External diameter (approx.) maximum mm	Weight (approx.) kg/km
1x4ru	0.7	1.2	6	7	45
1x6ru	0.7	1.2	6.5	7.5	55
1x10ru	0.7	1.2	7.3	8.5	70
1x16ru	0.7	1.2	8.2	9.5	90
1x25ru	0.9	1.2	9.8	11.4	130
1x35ru	0.9	1.2	10.8	12.5	165
1x50rm	1	1.2	12.1	14	210
1x70rm	1.1	1.2	13.9	16.1	275
1x95rm	1.1	1.3	15.8	18.3	365
1x120rm	1.2	1.3	17.3	20.1	445
1x150rm	1.4	1.3	19.4	22.5	545
1x185rm	1.6	1.4	21.3	24.7	680
1x240rm	1.7	1.4	23.8	27.6	850
1x300rm	1.8	1.5	26.8	31.1	1060
1x400rm	2	1.6	33.1	38.4	1490
1x500rm	2.2	1.7	36.6	42.5	1825
1x630rm	2.4	1.7	40.8	47.3	2280
2x4ru	0.7	1.2	10.6	12.3	150
2x6ru	0.7	1.2	11.6	13.5	180
2x10ru	0.7	1.2	13.2	15.3	240
2x16ru	0.7	1.3	16.2	18.8	370
2x25ru	0.9	1.3	19.4	22.5	535
3x4ru	0.7	1.2	11.2	13	160
3x6ru	0.7	1.2	12.3	14.3	200
3x10ru	0.7	1.2	14	16.2	270
3x16ru	0.7	1.3	17.1	19.8	415
3x25ru	0.9	1.4	20.8	24.1	610
3x35ru	0.9	1.4	22.9	26.6	760
3x50su	1	1.4	22	25.5	610
3x50sm	1	1.4	23.2	26.9	625
3x70su	1.1	1.5	25.8	29.9	820
3x70sm	1.1	1.5	26.8	31.1	835
3x95sm	1.1	1.5	30.2	35	1100
3x120sm	1.2	1.6	32.6	37.8	1345
3x150sm	1.4	1.7	36.4	42.2	1635
3x185sm	1.6	1.7	39.6	45.9	2065
3x240sm	1.7	1.8	44.4	51.5	2595
3x25ru+16ru	0.9/0.7	1.4	21.7	25.2	660
3x35ru+16ru	0.9/0.7	1.4	23.5	27.3	790
3x35ru+25ru	0.9/0.9	1.4	24.4	28.3	850
3x50su+25ru	1.0/0.9	1.4	25	29	715
3x50sm+25ru	1.0/0.9	1.5	26.6	30.9	745
3x70su+35ru	1.1/0.9	1.5	29.2	33.9	960
3x70sm+35ru	1.1/0.9	1.6	31	36	990

AC2XH

HALLEY CABLES

Low voltage power cables (0.6/1 kV)

Aluminium conductor low voltage power cable, with XLPE insulation, PE sheath, no emission of halogens, low emssion of smoke (LSZH)

DIMENSIONS

No. conductors x nominal cross section mm²	Insulation thickness mm	Outer sheath thickness mm	External diameter (approx.) nominal mm	External diameter (approx.) maximum mm	Weight (approx.) kg/km
3x95sm+50sm	1.1/1.0	1.6	34.6	40.1	1300
3x120sm+70sm	1.2/1.1	1.7	37.8	43.8	1615
3x150sm+70sm	1.4/1.1	1.8	41.8	48.5	1910
3x185sm+95sm	1.6/1.1	1.8	45.8	53.1	2425
3x240sm+120sm	1.7/1.2	2	51.6	59.9	3070
3x300sm+150sm	1.8/1.4	2.1	56.8	65.9	3785
4x4ru	0.7	1.2	12.1	14	185
4x6ru	0.7	1.2	13.3	15.4	230
4x10ru	0.7	1.3	15.5	18	320
4x16ru	0.7	1.3	18.6	21.6	485
4x25ru	0.9	1.4	22.7	26.3	715
4x35ru	0.9	1.4	25.1	29.1	895
4x50su	1	1.4	25	29	785
4x50sm	1	1.5	26.6	30.9	815
4x70su	1.1	1.5	29.2	33.9	1055
4x70sm	1.1	1.6	31	36	1095
4x95sm	1.1	1.6	34.6	40.1	1440
4x120sm	1.2	1.7	37.8	43.8	1765
4x150sm	1.4	1.8	41.8	48.5	2145
4x185sm	1.6	1.8	45.8	53.1	2710
4x240sm	1.7	2	51.6	59.9	3440
5x4ru	0.7	1.2	13.1	15.2	215
5x6ru	0.7	1.2	14.5	16.8	270
5x10ru	0.7	1.3	16.8	19.5	380
5x16ru	0.7	1.4	20.5	23.8	580
5x25ru	0.9	1.4	24.8	28.8	845
5x35ru	0.9	1.5	27.7	32.1	1080

HALLEY CABLES, Str. Siderurgistilor, nr. 9, 800364, Galati, Romania

The above values correspond to the manufacturer's specifications and are not guaranteed.

Tel. +40 236 319 000 Fax. +40 236 319 085 Created by HALLEY CABLES SRL August 2012.