ACYY / ACYY-F

Low Voltage Power Cable (0.6/1 kV)

Aluminium PVC insulated and sheathed cable

Construction:

1. Conductor : aluminium, solid or stranded.
2. Insulation : PVC type DIV 4.
3. Filling.
4. Outer sheath : PVC type DMV 5 black or grey.

Technical data and tests:

Rated voltage Uo/U : 0.6/1 kV.
Test voltage : 4 kV AC or 12 kV DC, 5 min.
Min. cable temperature : installation : -5° C.
Max.permissible operating temp. : 70° C.
Max. short-circuit temperature : 160° C.
Min. bending radius at installation : 15 x cable diameter – single-core cable;
12 x cable diameter – multicore cable.
Max. tensile strain during instal. : max. 50 N/mm².
Cod de culori : 1 conductor - blue, or y/g;
2 conductors - blue, brown;
- y/g, black, for sect. >10mm²;
3 conductors - brown, black, grey;
- y/g, blue, brown;
4 conductors - blue, brown, black, grey;
- y/g, brown, black, grey;
5 conductors - blue, brown, black, grey, black;
- y/g, blue, brown, black, grey;
More than 5 conductors - black numbered conductors;
- y/g, numbered conductors.

Standards:

Cable : HD 603 S1/3G-2; IEC 502.
Conductor type : class 1 or 2, according to EN 60228.
Flame retardancy : ACYY : EN 50265-2-1 (IEC 60332-1) - flames on a single vertical cable.
ACYY-F : EN 50266-2-4 (IEC 60332-3-24 Cat. C) - flames on a bunch of cables.

Applications:

Power supply to power stations. The cables can be installed in open or confined areas, underground (in pipes), in sewers, in concrete, in places where no mechanical damage is expected.

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HALLEY CABLES

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www.halleycables.com

DIMENSIONS

Cable Size	Type of Conductor	Radial Thickness of Insulation mm	Radial Thickness of Sheath mm	Outer Diameter mm	Approx. Cable Weight kg/km
1x4	re	1	1.4	7.9	66
1x6	re	1	1.4	8.4	78
1x10	re	1	1.4	9.2	98
1x16	re	1	1.4	10.9	126
1x25	re	1.2	1.4	12.6	188
1x35	re	1.2	1.4	13.8	230
1x50	rm	1.4	1.4	15.6	297
1x70	rm	1.4	1.5	17.3	388
1x95	rm	1.6	1.6	19.7	518
1x120	rm	1.6	1.6	21	605
1x150	rm	1.8	1.7	23.1	743
1x185	rm	2	1.7	25.5	922
1x240	rm	2.2	1.9	30.2	1176
1x300	rm	2.4	2	31.3	1431
2x4	re	1	1.8	12.3	207
2x6	re	1	1.8	13.5	255
2x10	re	1	1.8	15.1	326
2x16	re	1	1.8	18.8	430
2x25	re	1.2	1.8	22.2	678
2x35	re	1.2	1.8	24.6	841
3x4	re	1	1.8	13	233
3x6	re	1	1.8	14.3	287
3x10	re	1	1.8	16	371
3x16	re	1	1.8	20	471
3x25	re	1.2	1.8	23.6	773
3x25+16	re/re	1.2;1.0	1.8	25	840
3x35	re	1.2	1.8	26.2	961
3x35+16	re/re	1.2;1.0	1.8	27.1	978
3x50	sm	1.4	1.8	25	814
3x50+25	sm/rm	1.4/1.2	1.9	29	1025
3x70	sm	1.4	1.9	28	1170
3x70+35	sm/rm	1.4/1.2	2	35	1354
3x95	sm	1.6	2.1	30	1530
3x95+50	sm/sm	1.6/1.4	2.2	41	1844
3x120	sm	1.6	2	33	1879
3x120+70	sm/sm	1.6/1.4	2.3	45	2187
3x150	sm	1.8	2.2	36.9	2327
3x150+70	sm/sm	1.8/1.4	2.4	49	2648
3x185	sm	2	2.3	40.9	2892
3x185+95	sm/sm	2.0/1.6	2.6	53	3343
3x240	sm	2.2	2.5	47.5	4380
3x240+120	sm/sm	2.2/1.6	2.8	60	4258

IEC CE VDE RoHS PG TSE

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DIMENSIONS

Cable Size	Type of Conductor	Radial Thickness of Insulation mm	Radial Thickness of Sheath mm	Outer Diameter mm	Approx. Cable Weight kg/km
4x4	re	1	1.8	14.1	276
4x6	re	1	1.8	15.5	342
4x10	re	1	1.8	17.5	445
4x16	re	1	1.8	21.9	595
4x25	rm	1.2	1.8	26	939
4x35	rm	1.2	1.8	29.3	1205
4x50	sm	1.4	1.9	29	1137
4x70	sm	1.4	2	33.2	1478
4x95	sm	1.6	2.1	36	2037
4x120	sm	1.6	2.3	40	2422
4x150	sm	1.8	2.4	43	2979
4x185	sm	2	2.5	48.2	3500
4x240	sm	2.2	2.7	54.2	4590
5x4	re	1	1.8	15.3	339
5x6	re	1	1.8	16.9	406
5x10	re	1	1.8	19	523
5x16	re	1	1.8	23.9	713
5x25	re	1.2	1.9	28.7	1148
5x35	re	1.2	2	32.5	1488

Air Temperature °C	15	20	25	35	40	45	50
Correction Factor	1,17	1,12	1,06	0,94	0,87	0,79	0,71

Ground Temperature°C	15	20	25	30	35	40
Correction Factor	1,08	1	0,95	0,89	0,84	0,77

Thermal Resistivity of the Ground Km/W	0,8	1	1,2	1,5	2,0	2,5	3,0
Correction Factor	1,07	1	0,93	0,87	0,79	0,71	0,65

Note : The loads in current are expressed for an ambiental temperature of 30° C, ground temperature of 20° C and a ground thermal resistivity of 1 Km/W. For other conditions correction factors must be applied.

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