



### Construction:

Conductor	: copper (class 1 or 2), monowire (re), stranded (rm).
Insulation	: PVC type DIV 10.
Inner sheath	: PVC type DMV 17 black or grey.
Armour	: blank or zinc-plated cold-rolled steel tape, min. thickness 0.2-0.5 mm.
Outer sheath	: PVC type DMV 17 black or grey.

### Technical data and tests:

Conductor type	: monowire (re) class 1, stranded (rm), class 2.	
Rated voltage U <sub>0</sub> /U	: 0.6/1 kV.	
Test voltage	: 3.5 kV AC or 8.4 kV DC, 5 min.	
Min. bending radius at installation	: min. 12 x cable diameter.	
Max. tensile strain during installation	: max. 50 N/mm <sup>2</sup> .	
Min. cable temperature	: installation : -5° C. in use : -30° C.	
Max. permissible operating temperature	: 70° C.	
Max. short-circuit temperature	: 160° C.	
Colour codes	: with yellow/green conductor	without y/g conductor
2	-	blue - brown
3	y/g - blue - brown	brown - black - grey
4	y/g - brown - black - grey	blue - brown - black - grey
5	y/g - blue - black - brown - grey	blue - brown - black - grey - black

### Standards:

Cable	: IEC 60502-1.
Conductors	: EN 60228.
Flame retardancy	: CYAbY : EN 50265-2-1 (IEC 60332-1) - burning on a single vertical cable. CYAbY-F : EN 50266-2-4 (IEC 60332-3-24 Cat. C) - burning on a bundle of cables.

### Applications:

This cable is used for the transportation of energy to power stations. It must be protected against solar radiation, corrosive agents and chemical solvents. This cable can be installed underground or in air, inside or outside and is highly resistant to mechanical shocks. This cable is not resistant to fire but delays the propagation of flames.



**HALLEY CABLES**

# CYAbY / CYABY-F

**Low voltage power cables (0.6/1 kV)**

Copper conductor cable, armoured with steel tape and PVC sheath

## DIMENSIONS

Cable size & type mm <sup>2</sup>	Radial thickness			Max. heat Rresistance at 20°C Ω/km	Outer diameter mm	Approx. cable weight kg/km
	Insulation mm	Inner Sheath mm	Outer Sheath mm			
1x16 rm	1	0.76	1.8/1.24	1.15	13.1	371
1x25 rm	1.2	0.76	1.8/1.24	0.727	14.8	505
1x35 rm	1.2	0.76	1.8/1.24	0.524	16	625
1x50 rm	1.4	0.76	1.8/1.24	0.387	17.7	791
1x70 rm	1.4	0.76	1.8/1.24	0.268	19.5	1031
1x95 rm	1.6	0.76	1.8/1.24	0.193	21.8	1346
1x120 rm	1.6	0.76	1.8/1.24	0.153	23.3	1592
1x150 rm	1.8	0.76	1.8/1.24	0.124	25.3	1920
1x185 rm	2	0.76	1.8/1.24	9.91	27.6	2370
1x240 rm	2.2	0.76	1.8/1.24	7.54	30.5	3018
1x300 rm	2.4	0.76	1.8/1.24	6.01	33.5	3698
2x1.5 re	0.8	0.76	1.8/1.24	12.1	12.2	249
2x2.5 re	0.8	0.76	1.8/1.24	7.41	13	296
2x4 re	1	0.76	1.8/1.24	4.61	14.7	390
2x6 re	1	0.76	1.8/1.24	3.08	15.9	476
2x10 rm	1	0.76	1.8/1.24	1.83	18.4	648
2x16 rm	1	0.76	1.8/1.24	1.15	21.2	902
2x25 rm	1.2	0.76	1.8/1.24	0.727	24.2	1232
2x35 rm	1.2	0.76	1.8/1.24	0.524	26.6	1544
3x1.5 re	0.8	0.76	1.8/1.24	12.1	12.6	278
3x2.5 re	0.8	0.76	1.8/1.24	7.41	13.5	334
3x4 re	1	0.76	1.8/1.24	4.61	15.4	447
3x6 re	1	0.76	1.8/1.24	3.08	16.7	542
3x10 rm	1	0.76	1.8/1.24	1.83	19.4	744
3x16 rm	1	0.76	1.8/1.24	1.15	21.9	1054
3x25 rm	1.2	0.76	1.8/1.24	0.727	25.6	1502
3x25+16 rm	1.2;1.0	0.76	1.8/1.24	0.727;1.15	26.9	1689
3x35 rm	1.2	0.76	1.8/1.24	0.524	28.2	1917
3x35+16 rm	1.2;1.0	0.76	1.8/1.24	0.524;1.15	29.2	2076
3x50 sm	1.4	0.76	1.9/1.32	0.387	28.4	2130
3x50+25 sm/rm	1.4;1.2	0.76	2.0/1.4	0.387/0.727	31.8	2655
3x70 sm	1.4	0.76	2.0/1.4	0.268	31.8	2950
3x70+35 sm/rm	1.4;1.2	0.76	2.1/1.48	0.268/0.524	37	3766
3x95 sm	1.6	0.76	2.1/1.48	0.193	35.4	4055
3x95+50 sm/sm	1.6;1.4	0.76	2.4/1.72	0.193/0.387	40.2	4752
3x120 sm	1.6	0.84	2.2/1.56	0.153	38	4811
3x120+70 sm/sm	1.6;1.4	0.84	2.4/1.72	0.153/0.268	43.6	5800
3x150 sm	1.8	0.92	2.3/1.64	0.124	42.2	5822
3x150+70 sm/sm	1.8;1.4	0.92	2.5/1.8	0.124/0.268	48	6856
3x185 sm	2	1	2.4/1.72	9.91	45.6	7185
3x185+95 sm/sm	2.0;1.6	1	2.7/1.96	0.0991/0.193	53.2	5899
3x240 sm	2.2	1.58	2.6/1.88	7.54	52.2	9330

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## DIMENSIONS

Cable size & type mm <sup>2</sup>	Radial thickness			Max. heat resistance at 20°C Ω/km	Outer diameter mm	Approx. cable weight kg/km
	Insulation mm	Inner Sheath mm	Outer Sheath mm			
3x240+120 sm/sm	2.2/1.6	1.58	2.9/2.12	0.0754/0.153	60	10885
4x1.5 re	0.8	0.76	1.8/1.24	12.1	13.4	13.4
4x2.5 re	0.8	0.76	1.8/1.24	7.41	14.4	388
4x4 re	1	0.76	1.8/1.24	4.61	16.5	527
4x6 re	1	0.76	1.8/1.24	3.08	17.9	658
4x10 rm	1	0.76	1.8/1.24	1.83	20.9	916
4x16 rm	1	0.76	1.8/1.24	1.15	23.8	1277
4x25 rm	1.2	0.76	1.8/1.24	0.727	28.1	1864
4x35 sm	1.2	0.76	1.8/1.24	0.524	31.2	2391
4x50 sm	1.4	0.76	2.0/1.4	0.387	31.8	2833
4x70 sm	1.4	0.76	2.2/1.56	0.268	37	4150
4x95 sm	1.6	0.84	2.4/1.72	0.193	39.5	5150
4x120 sm	1.6	0.92	2.5/1.8	0.153	43.8	4478
4x150 sm	1.8	1	2.5/1.8	0.124	43.8	7611
5x1.5 re	0.8	0.76	1.8/1.24	12.1	14.2	364
5x2.5 re	0.8	0.76	1.8/1.24	7.41	15.3	448
5x4 re	1	0.76	1.8/1.24	4.61	17.7	615
5x6 re	1	0.76	1.8/1.24	3.08	19.3	773
5x10 rm	1	0.76	1.8/1.24	1.83	22.6	1087
5x16 rm	1	0.76	1.8/1.24	1.15	25.8	1537
5x25 rm	1.2	0.76	1.8/1.24	0.727	31.3	2260
5x35 rm	1.2	0.76	1.8/1.24	0.524	34.2	2908
7x1.5 re	0.8	0.76	1.8/1.24	12.1	15.1	475
7x2.5 re	0.8	0.76	1.8/1.24	7.41	16.3	595

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