



HALLEY CABLES

FG7M1 / FG7OM1

Power and Control Cable (0.6/1 kV)

Cable insulated with G7 high quality HEPR, no propagation of fire, halogen free, low emission of smoke, toxic and corrosive gases



Construction:

Conductor	: flexible copper, class 5.	* FG7M1 - for one core cables.
Insulation	: HEPR, G7 quality.	FG7OM1 - for multiple cores cables.
Filler	: not fibrous and not hygroscopic.	
Sheath	: thermoplastic, M1 quality*.	

Technical data and tests:

Standards	: according to BT 2006/95/EC- RoHS: 2002/95/EC; CEI 20-13 CEI 20-38; CEI UNEL 35382 - 35384; CEI EN 60332-3-24 (CEI 20-22 III); CEI EN 60332-1-2; CEI EN 50267-2-1; CEI EN 61034-2; CEI 20-37/4-0.	
Nominal voltage U0/U	: 0,6/1 kV.	
Test voltage	: 4 kV.	
Maximum voltage Um	: 1.2 kV.	
Maximum operating temperature	: 90° C.	
Maximum short circuit temperature for sections up to 240 mm ²	: +250° C.	
Maximum short circuit temperature for sections over 240 mm ²	: +220° C.	
Min. operating temperature (without mechanical shocks)	: -15° C.	
Minimum installation and use temp.	: 0° C.	
Minimum bending radius per D cable diameter (in mm)	: power flexible cables, class 5	: 4 x D.
	: control flexible cables, class 5	: 6 x D.
Max. pulling stress during installation	: 50 N/mm ² .	
Static stress	: 15 N/mm ² .	
Packing	: drums to agree.	
Core colours: Single core	: black.	
Two cores	: blue-brown.	
Three cores	: brown-black-gray (or blue-brown-Y/G).	
Four cores	: blue-brown-black-gray (or Y/G instead blue).	
Five cores	: Y/G-blue-brown-black-gray (or black instead Y/G).	
Multicores	: black with numbers.	
Sheath colour	: green.	

* M1 - Suitable for insulation and sheath of cables and wires. This compound is fire retardant, oil and hydrocarbon resistant. It gives cables self – extinguished properties, without halogenidric acids issuing. Furthermore, emissions of toxic, corrosive gases and smoke, during possible fires, are particularly reduced. This compound is suitable also for flame – retardant cables according to IEC 60331 law.

Applications:

This power and control cable can be used for outdoor and indoor applications, even wet. Suitable for fixed installations in open air, in tube or canals, masonry, metal structures, overhead wire and for direct or indirect underground wiring. The most important property of this kind of cable is its protection against smoke, toxic and corrosive gases in case of fire.





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DIMENSIONS

Cores number N°	Cross section mm ²	Approx conductor diameter mm	Insulation medium thickness mm	Approx external production diameter mm	Approx cable weight kg/km	Electric resistance at 20° C ohm/km	Current carrying capacities	
							30° air or pipe A	20° C ground A
Single core								
1x	1.5	1.6	0.7	6.05	48	13.3	20	21
1x	2.5	2	0.7	6.5	60	7.98	28	27
1x	4	2.6	0.7	7.25	80	4.95	37	35
1x	6	3.4	0.7	7.7	100	3.3	48	44
1x	10	4.4	0.7	8.7	148	1.91	66	59
1x	16	5.7	0.7	9.59	206	1.21	88	77
1x	25	6.9	0.9	11.46	295	0.78	117	100
1x	35	8.1	0.9	12.5	389	0.554	144	121
1x	50	9.8	1	14.5	542	0.386	175	150
1x	70	11.6	1.1	16.4	739	0.272	222	184
1x	95	13.3	1.1	17.9	964	0.206	269	217
1x	120	15.1	1.2	20.33	1189	0.161	312	259
1x	150	16.8	1.4	21.6	1484	0.129	355	287
1x	185	18.6	1.6	23.97	1780	0.106	417	323
1x	240	21.4	1.7	26.88	2319	8.01	490	379
1x	300	23.9	1.8	29.3	2877	6.41	-	429
1x	400	27.5	2.3	35.86	3822	4.86	-	541
Two cores								
2x	1.5	1.6	0.7	10	127	13.3	22	23
2x	2.5	2	0.7	10.9	158	7.98	30	30
2x	4	2.6	0.7	12.2	208	4.95	40	39
2x	6	3.4	0.7	13.1	258	3.3	51	49
2x	10	4.4	0.7	15.25	385	1.91	69	66
2x	16	5.7	0.7	17.44	565	1.21	91	86
2x	25	6.9	0.9	20.29	793	0.78	119	111
2x	35	8.1	0.9	22.38	1037	0.554	146	136
2x	50	9.8	1	26.22	1447	0.386	175	168
2x	70	11.6	1.1	30.88	2224	0.272	221	207
2x	95	13.3	1.1	34.18	2848	0.206	265	245
2x	120	15.1	1.2	38.41	3599	0.161	305	284
2x	150	16.8	1.4	42.46	3939	0.129	-	324
Three cores								
3x	1.5	1.6	0.7	10.44	143	13.3	19.5	19
3x	2.5	2	0.7	11.41	183	7.98	26	25
3x	4	2.6	0.7	12.81	244	4.95	35	32
3x	6	3.4	0.7	13.78	314	3.3	44	41
3x	10	4.4	0.7	16.9	493	1.91	60	55
3x	16	5.7	0.7	18.2	678	1.21	80	72
3x	25	6.9	0.9	21.2	977	0.78	105	93
3x	35	8.1	0.9	23.5	1354	0.554	128	114
3x	50	9.8	1	30.05	1918	0.368	154	141
3x	70	11.6	1.1	34.04	2624	0.272	194	174
3x	95	13.3	1.1	37.86	3418	0.206	233	206

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Cores number N°	Cross section mm ²	Approx conductor diameter mm	Insulation medium thickness mm	Approx external production diameter mm	Approx cable weight kg/km	Electric resistance at 20° C ohm/km	Current carrying capacities	
							30° In air or pipe A	20°C In ground A
3x	120	15.1	1.2	42.63	4326	0.161	268	238
3x	150	16.8	1.4	47.16	5348	0.129	300	272
3x	185	18.6	1.6	53.35	6611	0.106	340	306
3x	240	21.4	1.7	60.69	8613	8.01	398	360
Four cores								
4x	1.5	1.6	0.7	11.24	167	13.3	19.5	19
4x	2.5	2	0.7	12.33	221	7.98	26	25
4x	4	2.6	0.7	13.7	293	4.95	35	32
4x	6	3.4	0.7	14.99	387	3.3	44	41
4x	10	4.4	0.7	18	599	1.91	60	55
4x	16	5.7	0.7	20.3	871	1.21	80	72
4x	25	6.9	0.9	23.5	1239	0.78	105	93
4x	35*	8.1	0.9	28	1713	0.554	130	114
4x	50*	9.8	1	35	2472	0.368	154	141
4x	70*	11.6	1.1	42	3426	0.272	194	174
4x	95*	13.3	1.1	43	4526	0.206	233	206
4x	120*	15.1	1.2	50	5730	0.161	267	238
4x	150*	16.8	1.4	54	7447	0.129	300	272
4x	185*	18.6	1.6	65	9350	0.106	340	306
4x	240*	21.4	1.7	61	12277	8.01	398	360
3x35+1x25		8.1	0.9	26.3	1589	0.554	130	114
3x50+1x25		9.8	1	30.3	2116	0.386	155	141
3x70+1x35		11.6	1.1	35.73	2975	0.272	194	174
3x95+1x50		13.3	1.1	41.02	3971	0.206	235	206
3x120+1x70		15.1	1.2	45	5219	0.161	267	238
3x150+1x95		16.8	1.4	52.04	6511	0.129	-	272
3x185+1x95		18.6	1.6	56.72	7669	0.106	-	306
3x240+1x150		21.4	1.7	65.56	10279	8.01	-	360
Five cores								
5x	1.5	1.6	0.7	12.11	197	13.3	19.5	19
5x	2.5	2	0.7	13.48	262	7.98	26	25
5x	4	2.6	0.7	15.2	361	4.95	35	32
5x	6	3.4	0.7	16.65	476	3.3	44	41
5x	10	4.4	0.7	19.65	756	1.91	60	56
5x	16	5.7	0.7	22.5	1119	1.21	80	72
5x	25	6.9	0.9	26.42	1597	0.78	105	93
5x	35*	8.1	0.9	32	2175	0.554	130	114
5x	50*	9.8	1	38	3053	0.386	155	141
5x	70*	11.6	1.1	46.5	4348	0.272	194	174
5x	95*	13.3	1.1	51	5631	0.206	235	206
Multicores								
7x	1.5	1.6	0.7	13.58	261	13.3	19.5	19
7x	2.5	2	0.7	14.95	344	7.98	26	25
10x	1.5	1.6	0.7	15.59	344	13.3	19.5	19
10x	2.5	2	0.7	17.2	463	7.98	26	25
12x	1.5	1.6	0.7	17.06	393	13.3	19.5	19
12x	2.5	2	0.7	17.6	537	7.98	26	25
16x	1.5	1.6	0.7	18.5	535	13.3	19.5	19
16x	2.5	2	0.7	21.5	738	7.98	26	25
19x	1.5	1.6	0.7	18.8	598	13.3	19.5	19
19x	2.5	2	0.7	21.57	831	7.98	26	25
24x	1.5	1.6	0.7	21.7	718	13.3	19.5	19
24x	2.5	2	0.7	24.7	1029	7.98	26	25
27x	1.5*	1.6	0.8	23.99	810	13.5	15	19
27x	2.5*	2	0.8	26.78	1119	8.1	20	25
30x	1.5*	1.6	0.8	24.77	874	13.5	15	19
30x	2.5*	2	0.8	27.64	1212	8.1	20	25

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