



# HALLEY CABLES

# FG7R / FG7OR

## Control cables (0.6/1 kV)

Flexible or rigid cable for fixed installations without fire propagation and low emission of corrosive gas

www.halleycables.com



### **Construction:**

Conductor	: class 5 flexible copper.	* FG7R - for one core cables.
Insulation	: HEPR having G7 quality*.	FG7OR - for multiple cores cables.
Filler	: non fibrous and non hygroscopic.	
Outer sheath	: PVC sheath in RZ/ST2 quality.	
Colour	: light grey RAL 7035	

### **Technical data and tests:**

Standards	: according to BT 2006/95/EC- RoHS: 2002/95/EC; CEI 20-13 IEC 60502-1; CEI UNEL 35375-35377; CEI 20-22 II; CEI EN 60332-1-2; CEI EN 50267-2-1.
Nominal voltage U <sub>0</sub> /U	: 600 /1000 V (AC) & 1800 V (DC) - for both 600 and 1000 V.
Test voltage (50 Hz)	: 4000 V.
Maximum voltage U <sub>m</sub>	: 1200 V (AC) & 1800 V (DC).
Max. operating temperature	: 90° C.
Max. short circuit temperature for sections up to 240 mm <sup>2</sup>	: 250° C.
Max. short circuit temperature for sections over 240 mm <sup>2</sup>	: 220° C.
Min. operating temperature (without mechanical shocks)	: -15° C.
Min. installation and use temp.:	0° C.
Minimum bending radius per D cable diameter (in mm)	: flexible power cables, class 5 : 4 x D; flexible control cables, class 5 : 6 x D.
Maximum pulling stress	: 50 N/mm <sup>2</sup> .
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.

\* G7 - Suitable for cables showing high electrical and mechanical performances, fire resistance, LS0H cable core. Working temperature: -60 + 90°C. This compound is halogen free.

### **Applications:**

This power and control cable can be used in outdoor and indoor applications, even wet. It is suitable for fixed installations in open air, tubes or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring. Not indicated for connection with photovoltaic panels.





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### DIMENSIONS

Cores number	Cross section mm <sup>2</sup>	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	
							20°C In ground A	30° In air or pipe A
1x	1.5	1.6	0.7	6.05	51	13.3	21	20
1x	2.5	2	0.7	6.5	63	7.98	27	28
1x	4	2.6	0.7	7.15	82	4.95	35	37
1x	6	3.4	0.7	7.5	101	3.3	44	48
1x	10	4.4	0.7	7.99	152	1.91	59	66
1x	16	5.7	0.7	9.1	211	1.21	77	88
1x	25	6.9	0.9	10.4	301	0.78	100	117
1x	35	8.1	0.9	11.7	396	0.554	121	144
1x	50	9.8	1	14.05	556	0.386	150	175
1x	70	11.6	1.1	15.9	761	0.272	184	222
1x	95	13.3	1.1	17.59	991	0.206	217	269
1x	120	15.1	1.2	19.9	1219	0.161	259	312
1x	150	16.8	1.4	22.01	1517	0.129	287	355
1x	185	18.6	1.6	24.2	1821	0.106	323	417
1x	240	21.4	1.7	26.88	2366	8.01	379	490
1x	300	23.9	1.8	31.7	2947	6.41	429	-
1x	400	27.5	2	35.1	3870	4.86	541	-
2x	1.5	1.6	0.7	9.6	125	13.3	23	22
2x	2.5	2	0.7	10.59	151	7.98	30	30
2x	4	2.6	0.7	11.9	207	4.95	39	40
2x	6	3.4	0.7	12.7	256	3.3	49	51
2x	10	4.4	0.7	14.27	395	1.91	69	66
2x	16	5.7	0.7	16.3	576	1.21	86	91
2x	25	6.9	0.9	19	806	0.78	111	119
2x	35	8.1	0.9	21.4	1052	0.554	136	146
2x	50	9.8	1	25.5	1465	0.386	168	175
2x	70	11.6	1.1	30.8	2282	0.272	207	221
2x	95	13.3	1.1	33.9	2917	0.206	245	265
2x	120	15.1	1.2	37.9	3678	0.161	284	305
2x	150	16.8	1.4	42	4028	0.129	324	-
3x	1.5	1.6	0.7	10.18	139	13.3	19	19.5
3x	2.5	2	0.7	11	185	7.98	25	26
3x	4	2.6	0.7	12.5	246	4.95	32	35
3x	6	3.4	0.7	13.5	313	3.3	41	44
3x	10	4.4	0.7	16.5	503	1.91	55	60
3x	16	5.7	0.7	18.5	609	1.21	72	80
3x	25	6.9	0.9	21.9	991	0.78	93	105
3x	35	8.1	0.9	23.99	1370	0.554	114	128
3x	50	9.8	1	29.5	1941	0.386	141	154
3x	70	11.6	1.1	33.9	2680	0.272	174	194
3x	95	13.3	1.1	37.8	3487	0.206	206	233
3x	120	15.1	1.2	42.66	4406	0.161	238	268
3x	150	16.8	1.4	46.87	5440	0.129	272	300

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Cores number	Cross section mm <sup>2</sup>	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	
							20°C In ground A	30° In air or pipe A
3x	185	18.6	1.6	53.5	6750	0.106	306	340
3x	240	21.4	1.7	60.65	8778	8.01	360	398
4x	1.5	1.6	0.7	11	171	13.3	19	19.5
4x	2.5	2	0.7	12	222	7.98	25	26
4x	4	2.6	0.7	13.9	297	4.95	32	35
4x	6	3.4	0.7	15	392	3.3	41	44
4x	10	4.4	0.7	17.8	611	1.91	55	60
4x	16	5.7	0.7	20.9	886	1.21	72	80
4x	25	6.9	0.9	23.8	1255	0.78	93	105
3x35+1x25		8.1	0.9	26.5	1611	0.554	114	130
3x50+1x25		9.8	1	29.9	2142	0.386	141	155
3x70+1x35		11.6	1.1	35.8	3037	0.272	174	194
3x95+1x50		13.3	1.1	40.9	4047	0.206	206	235
3x120+1x70		15.1	1.2	46.95	5327	0.161	238	267
3x150+1x95		16.8	1.4	51.77	6635	0.129	272	-
3x185+1x95		18.6	1.6	56.77	7833	0.106	306	-
3x240+1x150		21.4	1.7	65.9	10476	8.01	360	-
5G	1.5	1.6	0.7	12.17	204	13.3	19	14
5G	2.5	2	0.7	13.38	266	7.98	21	15.5
5G	4	2.6	0.7	14.95	361	4.95	32	35
5G	6	3.4	0.7	16.45	471	3.3	41	44
5G	10	4.4	0.7	19.64	756	1.91	55	60
5G	16	5.7	0.7	23.77	1119	1.21	72	80
5G	25	6.9	0.9	26.81	1597	0.78	93	105
5G	35	8.1	0.9	30.86	2140	0.554	114	130
5G	50	9.8	1	36.5	3004	0.386	141	155
7x	1.5	1.6	0.7	13.15	247	13.3	16	11.5
7x	2.5	2	0.7	14.2	343	7.98	21	15.5
10x	1.5	1.6	0.7	15.24	353	13.3	16	11.5
10x	2.5	2	0.7	17.74	492	7.98	24	15.5
12x	1.5	1.6	0.7	16.1	380	13.3	12.5	9.5
12x	2.5	2	0.7	17.9	537	7.98	25	26
16x	1.5	1.6	0.7	18.8	549	13.3	19	12
16x	2.5	2	0.7	19.9	848	7.98	25	26
19x	1.5	1.6	0.7	19.7	612	13.3	19	10.5
19x	2.5	2	0.7	22.8	1049	7.98	25	26
24x	1.5	1.6	0.7	22.3	733	13.3	19	10.5
24x	2.5	2	0.7	25.9	1140	1.98	25	26
27x	1.5	1.6	0.8	23.99	829	13.5	19	19.5
27x	2.5	2	0.8	26.78	1234	8.1	25	26
30x	1.5	1.6	0.8	24.77	894	13.5	19	19.5
30x	2.5	2	0.8	27.64	1331	8.1	25	26

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