RG7H1M1

HALLEY CABLES

Medium voltage power cables (12/20 kV)

Cable for distribution between substations and large users, LSZH sheath

www.halleycables.com



Construction:

Conductor	: red copper, rigid, class 2.
Inner sheath	: semi-conducting material.
Insulation	: HEPR having G7 quality*.
Outer layer	: semi-conducting layer, special high module HEPR.
Shield	: red copper wire.
Outer sheath	: thermoplastic sheath in M1 quality, HFFR.
Colour	: red.

Technical data and tests:

Nominal voltage Uo/U	: 12 /20 kV (AC).
Test voltage (50 Hz)	: 42 kV.
Maximum voltage Um	: 24 kV.
Max. operating temperature	: 105° C.
Max. short circuit temp.	: 300° C.
Min. operating temperature (without mechanical shocks)	: -20° C.
Min. installation and use temp.	: -5° C.
Minimum bending radius per D cable diameter (in mm)	: 12 x D;
Maximum pulling stress	: 60 N/mm².

* 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.

Standards:

IEC 60502
CEI 20-13
CEI EN 50266-2-4 (CEI 20-22 III)
CEI EN 60332-1-2
CEI EN 50267-2-1
CEI EN 61034-2
The cable meets the requirements according to HD 620 for insulation, for all other characteristics compared to CEI 20-13

Applications:

RG7H1M1 cable is suitable for the transportation of energy between the substations and large users. It is particularly suitable in areas with danger of fire where equipment and tools on the premises are concentrated, and it is essential to safeguard them. There is no problem if it is left for free-hanging, or installed in tube or channel. Laying underground should be made in accordance with Art. 4.3.11 of IEC 11-17.

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DIMENSIONS

Cores number	Cross section mm²	Approx conductor diameter mm	Insulation medium thickness mm	Approx external production diameter mm	Approx cable weight kg/km	Min. bending radius mm
1x	25	6	17	23.3	780	280
1x	35	7	17	23.4	850	280
1x	50	8.1	18	24	980	288
1x	70	9.8	19	25.3	1190	304
1x	95	11.4	21	26.7	1470	321
1x	120	12.9	22	28.4	1740	341
1x	150	14.2	24	30	2030	360
1x	185	15.8	25	32	2440	384
1x	240	18.2	28	34.6	3040	416
1x	300	20.5	31	37.4	3700	449
1x	400	23.2	33	39.9	4550	479
1x	500	26.4	37	44.5	5670	534
1x	630	30.4	40	48.6	7105	584

Nominal Section N° x mm²	Electric resistance at 20°C Ohm/km	Capacities 50 Hz µF/km	Apparent resistance at 105°C and 50 Hz Ohm/km		Phase Reactance Ohm/km		Current carrying capacities A			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in ground	Flat in air	Trefoil formation in air	Flat in ground
Unipolare / Single core										
1x25	0.727	0.17	0.97	0.97	0.14	0.2	175	203	166	172
1x35	0.524	0.2	0.669	0.669	0.13	0.19	212	248	199	206
1x50	0.387	0.22	0.517	0.517	0.13	0.18	253	297	235	244
1x70	0.268	0.25	0.358	0.358	0.12	0.18	316	373	288	299
1x95	0.193	0.29	0.258	0.258	0.11	0.17	385	455	345	358
1x120	0.153	0.31	0.205	0.205	0.11	0.17	445	525	392	406
1x150	0.124	0.34	0.166	0.166	0.11	0.16	506	595	440	454
1x185	0.0991	0.37	0.134	0.134	0.10	0.16	581	680	496	512
1x240	0.0754	0.41	0.102	0.102	0.10	0.16	688	802	574	591
1x300	0.0601	0.46	0.083	0.082	0.095	0.15	790	916	647	664
1x400	0.047	0.49	0.066	0.065	0.093	0.15	914	1049	730	756
1x500	0.0366	0.56	0.053	0.052	0.09	0.15	1058	1208	828	848
1x630	0.0283	0.62	0.043	0.041	0.087	0.14	1219	1379	927	940

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IEC CE DVE RoHS PG TSE

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