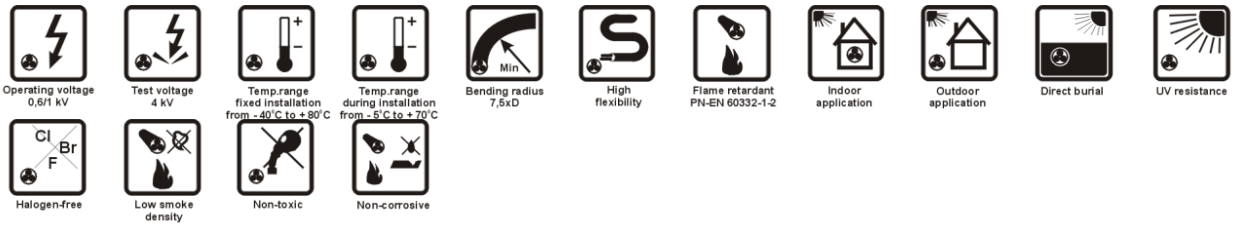
ISO 9001:2008

HSLH-JZ 0,6/1 KV, HSLH-OZ 0,6/1 KV
HSLH-JB 0,6/1 KV, HSLH-OB 0,6/1 KV

CONTROL AND POWER SUPPLY FLEXIBLE CABLES



APPLICATIONS

HSLH-JZ 0,6/1 kV, HSLH-OZ 0,6/1 kV, HSLH-JB 0,6/1 kV and **HSLH-OB 0,6/1 kV** are flexible cables intended for control, protection and monitoring systems or power supply, all in power engineering. The cables are also intended for wiring industrial plants, such as production lines, air-conditioning equipment etc.

Halogen free cables, applied when higher safety in case of fire is required. The cables are flame retardant, their smoke emission in fire is low and released gases are not corrosive.

The cables are designed to offer high flexibility combined with tensile strength.

The cables are suitable for indoor and outdoor installations in dry and wet locations, also for direct earth burial.

Sheathing black halogen free material is resistant to UV radiation.

Cable outer sheath is oil-resistant.

CONSTRUCTION

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 5 per PN-EN 60228,
- insulation made of halogen free compound (HFFR), identification colour code:
  HSLH-OZ 0,6/1 kV - black and white conductor number printed on it,
  HSLH-OB 0,6/1 kV - colours in accordance with PN-HD 308 standard,
  green-yellow protective conductor located in the outer layer in **HSLH-JZ 0,6/1 kV** and **HSLH-JB 0,6/1 kV** cable,
- insulated conductors laid-up in layers,
- black cable sheath made of halogen free compound (HFFR).

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CHARACTERISTICS

Conductor cross-section	mm^2	**0.5**	**0.75**	**1.0**	**1.5**	**2.5**	**4.0**
DC conductor resistance at 20°C, maximum	Ω/km	39.0	26.0	19.5	13.3	7.98	4.95
Conductor cross-section	mm^2	**6.0**	**10**	**16**	**25**	**35**	**50**
DC conductor resistance at 20°C, maximum	Ω/km	3.30	1.91	1.21	0.780	0.554	0.386

Operating voltage Uo/U	0.6/1 kV
Voltage test	4 kV rms
Insulation resistance, minimum	20 MΩ·km
Conductor temperature limit	
in work conditions	+ 70°C
at short-circuit	+ 160°C
Operating temperature range	
for fixed installation	from - 40 to + 80°C
for movable installation	from - 5 to + 70°C
Minimum bending radius	7.5 x cable diameter

Corrosivity of emitted gases per	PN-EN 60754-1, PN-EN 60754-2, IEC 60754-2
pH appr.	6.8
conductivity appr.	0.4 µS/mm
Smoke density	PN-EN 61034-2, IEC 61034-2
light transmittance, minimum	70 %
Cable combustibility	flame retardant
Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
Reference standards	WT-TK-50

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm^2	mm	kg/km	kg/km
HSLH-JZ 0,6/1 kV				
1791 001	2x0,5	7.6	9.6	79
1791 002	3x0,5	7.9	14.4	88
1791 003	4x0,5	8.5	19.2	102
1791 004	5x0,5	9.1	24.0	119
1791 005	6x0,5	9.8	28.8	138
1791 006	7x0,5	9.8	33.6	141
1791 007	8x0,5	10.5	38.4	160
1791 008	10x0,5	12.0	48.0	193
1791 009	12x0,5	12.4	57.6	213
1791 010	14x0,5	12.9	67.2	235
1791 011	16x0,5	13.6	76.8	263
1791 012	18x0,5	14.3	86.4	291
1791 013	20x0,5	14.9	96.0	319
1791 014	21x0,5	14.9	100.8	321
1791 015	27x0,5	16.8	129.6	393
1791 016	30x0,5	17.4	144.0	425
1791 017	36x0,5	18.7	172.8	498
1791 018	40x0,5	19.4	192.0	539
1791 019	44x0,5	20.9	211.2	590
1791 020	48x0,5	21.3	230.4	629
1791 021	52x0,5	22.1	249.6	682
1791 022	56x0,5	22.7	268.8	727
1791 023	61x0,5	23.4	292.8	777
1791 024	2x0,75	7.9	14.4	88
1791 025	3x0,75	8.3	21.6	100
1791 026	4x0,75	8.9	28.8	116
1791 027	5x0,75	9.6	36.0	138
1791 028	6x0,75	10.3	43.2	160
1791 029	7x0,75	10.3	50.4	163
1791 030	8x0,75	11.1	57.6	187
1791 031	10x0,75	12.7	72.0	226
1791 032	12x0,75	13.1	86.4	251

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm^2	mm	kg/km	kg/km
1791 033	14x0,75	13.7	100.8	279
1791 034	16x0,75	14.4	115.2	312
1791 035	18x0,75	15.2	129.6	347
1791 036	20x0,75	15.9	144.0	382
1791 037	21x0,75	15.9	151.2	385
1791 038	27x0,75	17.9	194.4	472
1791 039	30x0,75	18.6	216.0	513
1791 040	36x0,75	20.0	259.2	603
1791 041	40x0,75	20.7	288.0	654
1791 042	44x0,75	22.6	316.8	727
1791 043	48x0,75	23.0	345.6	776
1791 044	52x0,75	23.6	374.4	828
1791 045	56x0,75	24.3	403.2	885
1791 046	61x0,75	25.2	439.2	959
1791 047	2x1,0	8.3	19.2	99
1791 048	3x1,0	8.7	28.8	113
1791 049	4x1,0	9.4	38.4	133
1791 050	5x1,0	10.1	48.0	158
1791 051	6x1,0	10.9	57.6	184
1791 052	7x1,0	10.9	67.2	190
1791 053	8x1,0	11.7	76.8	217
1791 054	10x1,0	13.5	96.0	264
1791 055	12x1,0	13.9	115.2	293
1791 056	14x1,0	14.5	134.4	327
1791 057	16x1,0	15.3	153.6	367
1791 058	18x1,0	16.1	172.8	407
1791 059	20x1,0	16.8	192.0	448
1791 060	21x1,0	16.8	201.6	454
1791 061	27x1,0	19.0	259.2	559
1791 062	30x1,0	19.7	288.0	608
1791 063	36x1,0	21.2	345.6	717
1791 064	40x1,0	22.2	384.0	790
1791 065	44x1,0	24.0	422.4	866

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HSLH-JZ 0,6/1 KV, HSLH-OZ 0,6/1 KV
HSLH-JB 0,6/1 KV, HSLH-OB 0,6/1 KV

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm^2	mm	kg/km	kg/km
1791 066	48x1,0	24.4	460.8	925
1791 067	52x1,0	25.3	499.2	1002
1791 068	56x1,0	26.0	537.6	1071
1791 069	61x1,0	26.8	585.6	1147
1791 070	2x1,5	8.8	28.8	116
1791 071	3x1,5	9.3	43.2	136
1791 072	4x1,5	10.0	57.6	160
1791 073	5x1,5	10.8	72.0	191
1791 074	6x1,5	11.7	86.4	224
1791 075	7x1,5	11.7	100.8	233
1791 076	8x1,5	12.6	115.2	268
1791 077	10x1,5	14.5	144.0	325
1791 078	12x1,5	15.0	172.8	365
1791 079	14x1,5	15.7	201.6	409
1791 080	16x1,5	16.5	230.4	460
1791 081	18x1,5	17.4	259.2	512
1791 082	20x1,5	18.3	288.0	567
1791 083	21x1,5	18.3	302.4	575
1791 084	27x1,5	20.7	388.8	711
1791 085	30x1,5	21.4	432.0	774
1791 086	36x1,5	23.3	518.4	928
1791 087	40x1,5	24.2	576.0	1011
1791 088	44x1,5	26.4	633.6	1121
1791 089	48x1,5	26.8	691.2	1200
1791 090	52x1,5	27.6	748.8	1285
1791 091	56x1,5	28.6	806.4	1389
1791 092	61x1,5	29.4	878.4	1489
1791 093	2x2,5	10.1	48.0	158
1791 094	3x2,5	10.6	72.0	185
1791 095	4x2,5	11.5	96.0	222
1791 096	5x2,5	12.5	120.0	269
1791 097	6x2,5	13.6	144.0	317
1791 098	7x2,5	13.6	168.0	332
1791 099	8x2,5	14.6	192.0	380
1791 100	10x2,5	17.1	240.0	468
1791 101	12x2,5	17.6	288.0	527
1791 102	14x2,5	18.5	336.0	595
1791 103	16x2,5	19.5	384.0	672
1791 104	18x2,5	20.6	432.0	750
1791 105	20x2,5	21.6	480.0	831
1791 106	21x2,5	21.6	504.0	843
1791 107	27x2,5	25.0	648.0	1076
1791 108	30x2,5	25.9	720.0	1174
1791 109	36x2,5	28.1	864.0	1404
1791 110	40x2,5	29.2	960.0	1532
1791 111	44x2,5	31.8	1056.0	1695
1791 112	48x2,5	32.4	1152.0	1819
1791 113	52x2,5	33.3	1248.0	1949
1791 114	56x2,5	34.5	1344.0	2106
1791 115	61x2,5	35.5	1464.0	2261
1791 116	2x4	11.1	76.8	201
1791 117	3x4	11.7	115.2	241

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm^2	mm	kg/km	kg/km
1791 118	4x4	12.7	153.6	292
1791 119	5x4	13.9	192.0	356
1791 120	7x4	15.0	268.8	442
1791 121	2x6	12.2	115.2	257
1791 122	3x6	12.9	172.8	314
1791 123	4x6	14.1	230.4	385
1791 124	5x6	15.4	288.0	471
1791 125	7x6	16.8	403.2	596
1791 126	2x10	15.0	192.0	408
1791 127	3x10	15.9	288.0	505
1791 128	4x10	17.5	384.0	625
1791 129	5x10	19.2	480.0	771
1791 130	7x10	21.0	672.0	985
1791 131	2x16	17.2	307.2	574
1791 132	3x16	18.3	460.8	724
1791 133	4x16	20.1	614.4	901
1791 134	5x16	22.3	768.0	1128
1791 135	7x16	24.4	1075.2	1452
1791 136	2x50	29.2	960.0	1642
1791 137	3x50	31.4	1440.0	2094
1791 138	4x50	34.9	1920.0	2634
1791 139	5x50	38.7	2400.0	3297
1791 140	7x50	42.7	3360.0	4274
HSLH-OZ 0,6/1 kV				
1792 001	2x0,5	7.6	9.6	79
1792 002	3x0,5	7.9	14.4	88
1792 003	4x0,5	8.5	19.2	102
1792 004	5x0,5	9.1	24.0	119
1792 005	7x0,5	9.8	33.6	141
1792 006	2x0,75	7.9	14.4	88
1792 007	3x0,75	8.3	21.6	100
1792 008	4x0,75	8.9	28.8	116
1792 009	5x0,75	9.6	36.0	138
1792 010	7x0,75	10.3	50.4	163
1792 011	2x1	8.3	19.2	99
1792 012	3x1	8.7	28.8	113
1792 013	4x1	9.4	38.4	133
1792 014	5x1	10.1	48.0	158
1792 015	7x1	10.9	67.2	190
1792 016	2x1,5	8.8	28.8	116
1792 017	3x1,5	9.3	43.2	136
1792 018	4x1,5	10.0	57.6	160
1792 019	5x1,5	10.8	72.0	191
1792 020	7x1,5	11.7	100.8	233
1792 021	2x2,5	10.1	48.0	158
1792 022	3x2,5	10.6	72.0	185
1792 023	4x2,5	11.5	96.0	222

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HSLH-JZ 0,6/1 KV, HSLH-OZ 0,6/1 KV
HSLH-JB 0,6/1 KV, HSLH-OB 0,6/1 KV

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm^2	mm	kg/km	kg/km
1792 024	5x2,5	12.5	120.0	269
1792 025	7x2,5	13.6	168.0	332
1792 026	2x4	11.1	76.8	201
1792 027	3x4	11.7	115.2	241
1792 028	4x4	12.7	153.6	292
1792 029	5x4	13.9	192.0	356
1792 030	7x4	15.0	268.8	442
1792 031	2x6	12.2	115.2	257
1792 032	3x6	12.9	172.8	314
1792 033	4x6	14.1	230.4	385
1792 034	5x6	15.4	288.0	471
1792 035	7x6	16.8	403.2	596
1792 036	2x10	15.0	192.0	408
1792 037	3x10	15.9	288.0	505
1792 038	4x10	17.5	384.0	625
1792 039	5x10	19.2	480.0	771
1792 040	7x10	21.0	672.0	985
1792 041	2x16	17.2	307.2	574
1792 042	3x16	18.3	460.8	724
1792 043	4x16	20.1	614.4	901
1792 044	5x16	22.3	768.0	1128
1792 045	7x16	24.4	1075.2	1452
1792 046	2x50	29.2	960.0	1642
1792 047	3x50	31.4	1440.0	2094
1792 048	4x50	34.9	1920.0	2634
1792 049	5x50	38.7	2400.0	3297
1792 050	7x50	42.7	3360.0	4274
HSLH-JB 0,6/1 kV				
1793 001	3x0,5	7.9	14.4	88
1793 002	5x0,5	9.1	24.0	119
1793 003	3x0,75	8.3	21.6	100
1793 004	5x0,75	9.6	36.0	138
1793 005	3x1,0	8.7	28.8	113

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm^2	mm	kg/km	kg/km
1793 006	5x1,0	10.1	48.0	158
1793 007	3x1,5	9.3	43.2	136
1793 008	5x1,5	10.8	72.0	191
1793 009	3x2,5	10.6	72.0	185
1793 010	5x2,5	12.5	120.0	269
1793 011	3x4	11.7	115.2	241
1793 012	5x4	13.9	192.0	356
1793 013	3x6	12.9	172.8	314
1793 014	5x6	15.4	288.0	471
1793 015	3x10	15.9	288.0	505
1793 016	5x10	19.2	480.0	771
1793 017	3x16	18.3	460.8	724
1793 018	5x16	22.3	768.0	1128
1793 019	3x50	31.4	1440.0	2094
1793 020	5x50	38.7	2400.0	3297
HSLH-OB 0,6/1 kV				
1794 001	2x0,5	7.6	9.6	79
1794 002	4x0,5	8.5	19.2	102
1794 003	2x0,75	7.9	14.4	88
1794 004	4x0,75	8.9	28.8	116
1794 005	2x1,0	8.3	19.2	99
1794 006	4x1,0	9.4	38.4	133
1794 007	2x1,5	8.8	28.8	116
1794 008	4x1,5	10.0	57.6	160
1794 009	2x2,5	10.1	48.0	158
1794 010	4x2,5	11.5	96.0	222
1794 011	2x4	11.1	76.8	201
1794 012	4x4	12.7	153.6	292
1794 013	2x6	12.2	115.2	257
1794 014	4x6	14.1	230.4	385
1794 015	2x10	15.0	192.0	408
1794 016	4x10	17.5	384.0	625
1794 017	2x16	17.2	307.2	574
1794 018	4x16	20.1	614.4	901
1794 019	2x50	29.2	960.0	1642
1794 020	4x50	34.9	1920.0	2634

Other cross-sections and conductor counts available on request.
TECHNOKABEL S.A. reserves the right to change specifications without prior notice.