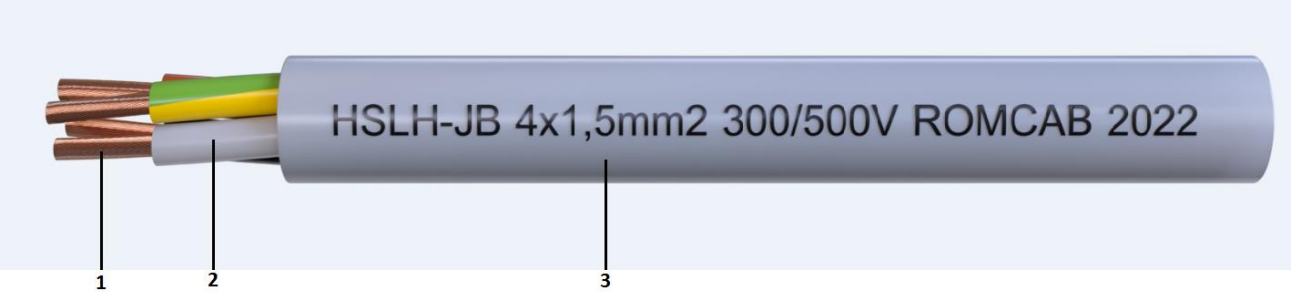
HSLH 300/500V - Halogen-Free Control Cable with Improved Fire Behaviour



Application: For installations in dry, humid and wet locations, but not outdoors. These cables are used for fix or for flexible applications - but not with high tensile load or for forced bending. 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.

Construction:	1.Conductor	-	Copper : Class 5 fine stranded according to EN 60228
	2.Insulation	-	Halogen-free Cross-linkable polyethylene (XLPE)
	3.Outher sheath	-	Halogen free flame retardand compound (HFFR), Grey

Standards:

DIN EN 50399
DIN EN 60754-2
DIN EN 61034-2
DIN EN 60332-1-2

Core identification:

JZ: One core green/yellow, other cores are black with figures
OZ: Every core is black with figures
JB: Colours accordance with HD 308 standard with green yellow
OB: Colours accordance with HD 308 standard without green yellow

Technical data:	Nominal voltage Uo/U		[V]	300 / 500 Volt
	Test Voltage		[V]AC	2000
	Temperature range	in motion	°C	-5°C till +70°C
		Fixed	°C	-30°C till +70°C
	Operating temperature	short circuit	°C	150°C
	Short circuit time	max.	[sec]	5
	Bending radius	in motion	x diameter	15

Flammability: Reaction to fire – EN 50575 - Dca

Number of cores x Cross-section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20^0 C [Ω/km]
2 x 0.5	4.9	40	**39**
2 x 0.75	5.2	47	**26**
2 x 1	5.7	55	**19.5**
2 x 1.5	6.3	72	**13.3**
2 x 2.5	7.7	110	**7.98**
2 x 4	9.2	145	**4.95**
2 x 6	11.2	203	**3.3**
2 x 10	14.2	346	**1.91**
2 x 16	17	511	**1.21**
2 x 25	20.6	763	**0.780**
3 x 0.5	5.2	50	**39**
3 x 0.75	5.5	56	**26**
3 x 1	6	67	**19.5**
3 x 1.5	6.7	88	**13.3**
3 x 2.5	8.2	137	**7.98**
3 x 4	9.7	180	**4.95**
3 x 6	12	285	**3.3**
3 x 10	15	410	**1.91**
3 x 16	18.4	865	**1.21**
3 x 25	22.4	980	**0.780**
3 x 35	25	1304	**0.554**

Number of cores x Cross-section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20^0 C [Ω/km]
4 x 0.75	6.2	69	**26**
4 x 1	6.7	83	**19.5**
4 x 1.5	7.3	110	**13.3**
4 x 2.5	9.1	174	**7.98**
4 x 4	10.9	267	**4.95**
4 x 6	13.1	388	**3.3**
4 x 10	16.6	616	**1.91**
4 x 16	20.6	908	**1.21**
4 x 25	25.1	1620	**0.780**
4 x 35	28.7	1810	**0.554**
4 x 50	35.2	2520	**0.386**
4 x 70	41.3	3565	**0.272**
5 x 0.75*	6.9	83	**26**
5 x 1	7.4	100	**19.5**
5 x 1.5	8.2	135	**13.3**
5 x 2.5	10	217	**7.98**
5 x 4	12.2	331	**4.95**
5 x 6	14.6	480	**3.3**
5 x 10	18.5	766	**1.91**
5 x 16	22.8	1134	**1.21**
5 x 25	27.9	1625	**0.780**
5 x 35	32	2225	**0.554**
5 x 50	38.7	3195	**0.386**
5 x 70	46.1	4320	**0.272**
6 x 1.5	9.1	160	**13.3**
6 x 2.5	11.1	276	**7.98**
7 x 0.75*	7.5	104	**26**
7 x 1*	8.2	130	**19.5**
7 x 1.5*	9.1	170	**13.3**
7 x 2.5	11.1	306	**7.98**
7 x 4	13.5	432	**4.95**
7 x 6	16.4	514	**3.3**
7 x 10	20.4	1020	**1.91**
7 x 16	25	1356	**1.21**
7 x 25	30.9	2043	**0.780**
8 x 2.5	12.4	309	**7.98**
9 x 2,5	14	348	**7.98**
10 x 2.5	14	379	**7.98**

Number of cores x Cross-section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20^0 C [Ω/km]
11 x 2.5	14.6	402	**7.98**
12 x 0.75*	9.9	172	**26**
12 x 1*	11.1	212	**19.5**
12 x 1.5*	12.1	289	**13.3**
12 x 2.5*	15	467	**7.98**
12 x 4	17.6	637	**4.95**
18 x 1.5*	14.5	433	**13.3**
25 x 1.5*	17.2	596	**13.3**
34 x 1.5*	20	786	**13.3**

All cables **without** the „ * ” mark are Dca rated

All cables **with** the „ * ” mark will be CPR rated on request.