

LSOH building wire

NHXMH-J/-O



Application: Low-smoke, zero-halogen, flame-retardant building wire, for installation on and under plaster in dry and wet rooms, as well as in concrete (except for shaken, jolted, tamped concrete). For indoor use only, primarily in buildings with a high concentration of people and material assets.

Construction and technical data:

CPR-performance:	Eca
Standard:	VDE 0250 T. 214
Conductor material:	copper, bare
Conductor construction:	class 1, up from 16 sqmm class 2
Insulation:	XLPE 2X11
Sheathing material:	FRNC-compound HM2
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Maximum temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

NHXMH-J

Nominal voltage U₀:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name		RI [Ohm/km]	I _{bl} [A]	R _{bv} [mm]	Ø [mm]	Cu [kg/km]	G [kg]
020278	01X1.5	RE	12.1		20.8	5.2	15	75
020279	01X2.5	RE	7.41		22.4	5.6	24	85

part no.	part name		RI [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg]
020232	01X4	RE	4.61		28	7	39	135
020280	01X6	RE	3.08		29.6	7.4	58	150
020281	01X10	RE	1.83		31.2	7.8	96	200
020233	01X16	RM	1.15		38.4	9.6	154	295
020282	01X25	RM	0.727		48	12	240	350
020185	03X1.5	RE	12.1	19.5	34.4	8.6	43	130
020188	03X2.5	RE	7.41	27	38	9.5	72	165
020206	03X4	RE	4.61	36	42	10.7	115	235
020207	03X6	RE	3.08	46	49.2	12.3	173	320
020208	03X10	RE	1.83	63	59.2	14.8	288	480
020192	04X1.5	RE	12.1	17.5	36.8	9.2	58	150
020209	04X2.5	RE	7.41	24	40.8	10.2	96	200
020187	04X4	RE	4.61	32	48.8	12.2	154	300
020189	04X6	RE	3.08	41	52.8	13.2	230	395
020210	04X10	RE	1.83	57	63.2	15.8	384	595
020190	04X16	RM	1.15	76	80	20	614	935
020191	04X25	RM	0.727	96	98	24.5	960	1420
020211	04X35	RM	0.524	119	110	27.5	1344	1910
020214	05X1.5	RE	12.1	17.5	39.2	9.8	72	175
020195	05X2.5	RE	7.41	24	42.8	10.7	120	235
020179	05X4	RE	4.61	32	52.8	13.2	192	350
020196	05X6	RE	3.08	41	177.6	14.8	288	480
020212	05X10	RE	1.83	57	69.6	17.4	480	710
020194	05X16	RM	1.15	76	88	22	768	1140
020277	05X25	RM	0.727	96	112	28	1200	1900
020197	07X1.5	RE	12.1	19.5	40.8	10.2	101	210
020213	07X2.5	RE	7.41	27	48.8	12.2	168	300
020229	10X1.5	RE	12.1	19.5	58	14.5	144	280
020230	12X1.5	RE	12.1	19.5	66	16.5	173	320
020231	24X1.5	RE	12.1	19.5	80	20	346	570
020296	24X2.5	RE	7.41	27	92	23	576	787

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Nominal voltage U_o: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		RI [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg]
020198	01X1.5	RE	12.1	19.5	20.8	5.2	15	92
020199	01X2.5	RE	7.41	27	22.4	5.6	24	110
020200	01X4	RE	4.61	36	28.4	7.1	39	135
020201	01X6	RE	3.08	46	29.6	7.4	58	160
020202	01X10	RE	1.83	63	31.2	7.8	96	215
020203	01X16	RM	1.15	85	35.2	8.8	154	295
020204	02X1.5	RE	12.1	19.5	32.8	8.2	29	110
020205	02X2.5	RE	7.41	27	36	9	48	130
020327	02X4	RE	4.61	36	39.2	9.8	77	173
020328	02X6	RE	3.08	46	43.2	10.8	115	226
020329	02X10	RE	1.83	63	53.2	13.3	192	356
020234	04X10	RE	1.83	57	62.8	15.7	384	615
020235	04X16	RM	1.15	76	78	19.5	614	935
020236	04X25	RM	0.727	96	95.2	23.8	960	1420

RI	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000