

FLAMEBLOCKER

N2XH-J,O 0,6/1kV

(N)2XH-J,O 0,6/1kV*

National: VDE 0276-604; VDE 0276-627

* based on norm

Halogen- free low smoke power cables



CONSTRUCTION		
Conductors:	annealed copper solid class 1(RE), circular or circular compacted stranded conductor class 2 (RM) or stranded sector – shaped conductor class 2 (SM) acc. to EN 60228	
Insulation:	special XLPE compound type 2XI1 acc. to DIN VDE 0276-604	
Inner covering:	filling compound	
Sheath:	thermoplastic halogen- free compound type HM4 according to DIN VDE 0276-604	
Colour of sheath:	black (other colours, included in standard RAL pallet available at customer request as (N)2XH)	
Core identification:	HD 308 S2 (other colours available at customer request)	
	N2XH-J with protective conductor	N2XH-O without protective conductor
1-core:	green-yellow	black
2-core:	-	blue, brown
3-core:	green-yellow, blue, brown	brown, black, grey
3-core:*		blue, brown, black
4-core:	green-yellow, brown, black, grey	blue, brown, black, grey
4-core:*	green-yellow, blue, brown, black	
5-core:	green-yellow, blue, brown, black, grey	blue, brown, black, grey, black
6-core and more:	green-yellow, other cores black with numbering	black with white numbering
	* For certain applications only.	

CHARACTERISTIC	
Maximum conductor operating temperature:	+90°C
Lowest ambient temperature for fixed installation:	-40°C
Lowest installation temperature:	-5°C
Maximum short-circuit conductor temperature:	+250°C
Minimum bending radius:	15 x D single core cables, 12 x D multicore cables, D – overall diameter
Max. permissible tensile stress with cable grip for Cu-conductor:	50 N/mm ²
Oil resistant:	IRM 902 oil, 4h at 70°C according to IEC 60811-2-1

N2XH 0,6/1kV MK-04-06-2019
Replace N2XH 0,6/1kV MK-24-05-2019

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FIRE PERFORMANCE	
Flame retardant:	IEC 60332-1-2, IEC 60332-3-24
Smoke density:	IEC 61034-2: light transmittance values > 60%
Gases evolved during combustion:	IEC 60754-1, IEC 60754-2, DIN EN 50267-2-2: pH ≥ 4,3; conductivity ≤ 10 μS/cm
CPR – class reaction to fire (acc EN 50575):	B2ca-s1a,d0,a1 B2ca-s1b,d0,a1 B2ca-s1,d0,a1 Dca-s1,d0,a1

APPLICATIONS	
XLPE insulated and halogen-free thermoplastic compound sheathed power and auxiliary control cables for the supply of electrical energy. Special for installations where fire and emissions of smoke and toxic fumes create a potential threat. Special outdoor installation in the open air, in underground, suitable for installation directly in the ground, indoors, in cable ducts.	
Standard length cable packing	1000m on drums. Other forms of packing and delivery are available on request

APPROVALS	
VDE, GOST,	

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Caloric load	CPR class reaction to fire
$n \times mm^2$	mm	kg/km	Ω/km	kWh/m	
1x1,5RM	5,4	42	12,1	0,2	-
1x1,5RE	5,2	40	12,1	0,18	-
1x2,5RE	5,5	51	7,41	0,2	-
1x2,5RM	5,8	54	7,41	0,22	-
1x4RM	6,3	71	4,61	0,26	-
1x4RE	6	68	4,61	0,23	-
1x6RM	6,7	91	3,08	0,27	-
1x6RE	6,5	88	3,08	0,26	-
1x10RM	7,6	133	1,83	0,33	B2ca-s1,d0,a1
1x10RE	7,3	129	1,83	0,3	B2ca-s1,d0,a1
1x16RM	8,6	192	1,15	0,39	B2ca-s1,d0,a1
1x16RE	8,2	185	1,15	0,36	B2ca-s1,d0,a1
1x25RM	10,5	294	0,727	0,58	B2ca-s1,d0,a1
1x35RM	11,6	389	0,524	0,66	B2ca-s1,d0,a1
1x50RM	13,1	514	0,387	0,78	B2ca-s1,d0,a1
1x70RM	14,6	714	0,268	0,94	B2ca-s1,d0,a1
1x95RM	16,8	972	0,193	1,15	B2ca-s1,d0,a1

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Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Caloric load	CPR class reaction to fire
$n \times mm^2$	mm	kg/km	Ω/km	kWh/m	
1x120RM	18,4	1209	0,153	1,34	B2ca-s1,d0,a1
1x150RM	20,2	1480	0,124	1,6	B2ca-s1,d0,a1
1x185RM	22,5	1845	0,0991	1,96	B2ca-s1,d0,a1
1x240RM	25,2	2373	0,0754	2,29	B2ca-s1,d0,a1
1x300RM	27,4	2957	0,0601	2,68	B2ca-s1,d0,a1
1x400RM	30,5	3799	0,047	3,17	B2ca-s1,d0,a1
1x500RM	34,3	4853	0,0366	3,88	B2ca-s1,d0,a1
1x630RM*	38,7	6161	0,0283	4,73	-
1x800RM*	43,4	7767	0,0221	5,62	-
1x1000RM*	47,5	9655	0,0176	6,58	-
2x1,5RM	9,1	124	12,1	0,48	B2ca-s1b,d0,a1
2x1,5RE	8,7	116	12,1	0,44	B2ca-s1b,d0,a1
2x2,5RE	9,5	148	7,41	0,5	B2ca-s1b,d0,a1
2x2,5RM	10	159	7,41	0,56	B2ca-s1b,d0,a1
2x4RM	11	208	4,61	0,66	B2ca-s1b,d0,a1
2x4RE	10,4	192	4,61	0,58	B2ca-s1b,d0,a1
2x6RM	11,7	257	3,08	0,72	B2ca-s1b,d0,a1
2x6RE	11,4	247	3,08	0,67	B2ca-s1b,d0,a1
2x10RE	13	354	1,83	0,83	B2ca-s1b,d0,a1
2x10RM	13,6	374	1,83	0,91	B2ca-s1b,d0,a1
2x16RM	15,8	541	1,15	1,17	B2ca-s1b,d0,a1
2x16RE	15	509	1,15	1,05	B2ca-s1b,d0,a1
2x25RM	20,4	861	0,727	1,82	B2ca-s1b,d0,a1
2x35RM	22,7	1122	0,524	2,19	B2ca-s1b,d0,a1
2x50RM	25,7	1473	0,387	2,68	B2ca-s1b,d0,a1
2x70RM*	29	2006	0,268	3,36	-
2x95RM*	33,3	2713	0,193	4,19	-
2x120RM*	36,7	3364	0,153	5,05	-
2x150RM*	40,6	4129	0,124	6,19	-
2x240RM*	50,8	6591	0,0754	9,28	-
3x1,5RM	9,6	141	12,1	0,55	B2ca-s1b,d0,a1
3x1,5RE	9,1	132	12,1	0,49	B2ca-s1b,d0,a1
3x2,5RM	10,5	184	7,41	0,64	B2ca-s1b,d0,a1
3x2,5RE	10	172	7,41	0,57	B2ca-s1b,d0,a1
3x4RM	11,6	245	4,61	0,75	B2ca-s1b,d0,a1
3x4RE	11	229	4,61	0,66	B2ca-s1b,d0,a1

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