

FLAMEBLOCKER

N2XH-J,O 0,6/1kV

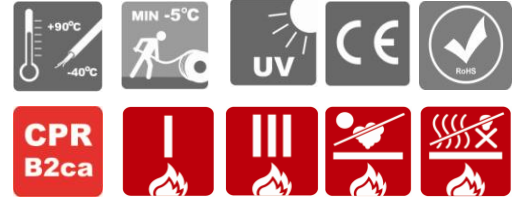
(N)2XH-J,O 0,6/1kV*



National: VDE 0276-604

* 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 2X11 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

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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

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.

Not suitable for use in water and directly in the ground.

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	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	CPR Class reaction to fire
$n \times mm^2$	mm	mm	mm	kg/km	Ω/km	
1x10RE	0,7	1,2	7,3	128	1,83	B2ca-s1, d0,a1
1x10RM	0,7	1,2	7,6	133	1,83	B2ca-s1, d0,a1
1x16RE	0,7	1,2	8,2	185	1,15	B2ca-s1, d0,a1
1x16RM	0,7	1,2	8,6	192	1,15	B2ca-s1, d0,a1
1x25RM	0,9	1,2	10,5	294	0,727	B2ca-s1, d0,a1
1x35RM	0,9	1,2	11,6	388	0,524	B2ca-s1, d0,a1
1x50RM	1	1,2	13,1	513	0,387	B2ca-s1, d0,a1
1x70RM	1,1	1,2	14,6	713	0,268	B2ca-s1, d0,a1
1x95RM	1,1	1,3	16,8	971	0,193	B2ca-s1, d0,a1
1x120RM	1,2	1,3	18,4	1207	0,153	B2ca-s1, d0,a1
1x150RM	1,4	1,3	20,4	1480	0,124	B2ca-s1, d0,a1
1x185RM	1,6	1,4	22,5	1844	0,0991	B2ca-s1, d0,a1
1x240RM	1,7	1,4	25,2	2372	0,0754	B2ca-s1, d0,a1
1x300RM	1,8	1,5	27,4	2954	0,0601	B2ca-s1, d0,a1
1x400RM	2	1,5	30,5	3797	0,047	B2ca-s1, d0,a1
1x500RM	2,2	1,6	34,3	4851	0,0366	B2ca-s1, d0,a1

N2XH 0,6/1kV JW-25-08-17

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N2XH-J,O 0,6/1kV

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



National: VDE 0276-604

* based on norm

Number and cross-sectional area of conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	CPR class reaction to fire
$n \times mm^2$	mm	mm	mm	kg/km	Ω/km	
2x1,5RE	0,7	1,2	8,7	116	12,1	B2ca-s1b, d0,a1
2x1,5RM	0,7	1,2	9,1	124	12,1	B2ca-s1b, d0,a1
2x2,5RE	0,7	1,2	9,5	148	7,41	B2ca-s1b, d0,a1
2x2,5RM	0,7	1,2	10	159	7,41	B2ca-s1b, d0,a1
2x4RE	0,7	1,2	10,4	192	4,61	B2ca-s1b, d0,a1
2x4RM	0,7	1,2	11	208	4,61	B2ca-s1b, d0,a1
2x6RE	0,7	1,2	11,4	247	3,08	B2ca-s1b, d0,a1
2x6RM	0,7	1,2	11,7	257	3,08	B2ca-s1b, d0,a1
2x10RE	0,7	1,2	13	354	1,83	B2ca-s1b, d0,a1
2x10RM	0,7	1,2	13,6	374	1,83	B2ca-s1b, d0,a1
2x16RE	0,7	1,3	15	509	1,15	B2ca-s1b, d0,a1
2x16RM	0,7	1,3	15,8	541	1,15	B2ca-s1b, d0,a1
2x25RM	0,9	1,3	20,4	864	0,727	B2ca-s1b, d0,a1
2x35RM	0,9	1,4	22,7	1126	0,524	B2ca-s1b, d0,a1
3x1,5RE	0,7	1,2	9,1	132	12,1	B2ca-s1b, d0,a1
3x1,5RM	0,7	1,2	9,6	141	12,1	B2ca-s1b, d0,a1
3x2,5RE	0,7	1,2	10	172	7,41	B2ca-s1b, d0,a1
3x2,5RM	0,7	1,2	10,5	184	7,41	B2ca-s1b, d0,a1
3x4RE	0,7	1,2	11	229	4,61	B2ca-s1b, d0,a1
3x4RM	0,7	1,2	11,6	245	4,61	B2ca-s1b, d0,a1
3x6RE	0,7	1,2	12	299	3,08	B2ca-s1b, d0,a1
3x6RM	0,7	1,2	12,4	310	3,08	B2ca-s1b, d0,a1
3x10RE	0,7	1,2	13,7	439	1,83	B2ca-s1b, d0,a1
3x10RM	0,7	1,2	14,4	460	1,83	B2ca-s1b, d0,a1
3x16RE	0,7	1,3	15,9	642	1,15	B2ca-s1b, d0,a1
3x16RM	0,7	1,3	16,8	675	1,15	B2ca-s1b, d0,a1
3x25RM	0,9	1,3	21,6	1078	0,727	B2ca-s1b, d0,a1
3x35RM	0,9	1,4	24,1	1421	0,524	B2ca-s1b, d0,a1
3x25RM+16RE	0,9/0,7	1,4	22,6	1240	0,727/1,15	B2ca-s1b, d0,a1
3x25RM+16RM	0,9/0,7	1,4	22,8	1247	0,727/1,15	B2ca-s1b, d0,a1
3x35RM+16RE	0,9/0,7	1,4	24,5	1575	0,524/1,15	B2ca-s1b, d0,a1
3x35RM+16RM	0,9/0,7	1,4	24,7	1582	0,524/1,15	B2ca-s1b, d0,a1
3x35RM+25RM*	0,9/0,9	1,4	25,8	1683	0,524/0,727	B2ca-s1b, d0,a1
4x1,5RE	0,7	1,2	9,9	155	12,1	B2ca-s1b, d0,a1
4x1,5RM	0,7	1,2	10,3	164	12,1	B2ca-s1b, d0,a1

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



National: VDE 0276-604

* based on norm

Number and cross-sectional area of conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	CPR class reaction to fire
$n \times mm^2$	mm	mm	mm	kg/km	Ω/km	
4x2,5RE	0,7	1,2	10,8	204	7,41	B2ca-s1b, d0,a1
4x2,5RM	0,7	1,2	11,4	218	7,41	B2ca-s1b, d0,a1
4x4RE	0,7	1,2	11,9	275	4,61	B2ca-s1b, d0,a1
4x4RM	0,7	1,2	12,6	294	4,61	B2ca-s1b, d0,a1
4x6RE	0,7	1,2	13,1	365	3,08	B2ca-s1b, d0,a1
4x6RM	0,7	1,2	13,5	378	3,08	B2ca-s1b, d0,a1
4x10RE	0,7	1,3	15,2	550	1,83	B2ca-s1b, d0,a1
4x10RM	0,7	1,3	15,9	573	1,83	B2ca-s1b, d0,a1
4x16RE	0,7	1,3	17,4	798	1,15	B2ca-s1b, d0,a1
4x16RM	0,7	1,3	18,4	837	1,15	B2ca-s1b, d0,a1
4x25RM	0,9	1,4	23,9	1348	0,727	B2ca-s1b, d0,a1
4x35RM	0,9	1,4	26,4	1778	0,524	B2ca-s1b, d0,a1
4x25RM+16RE	0,9/0,7	1,4	25,0	1534	0,727/1,15	B2ca-s1b, d0,a1
4x25RM+16RM	0,9/0,7	1,4	25,2	1541	0,727/1,15	B2ca-s1b, d0,a1
4x35RM+16RE	0,9/0,7	1,4	27,3	1960	0,524/1,15	B2ca-s1b, d0,a1
4x35RM+16RM	0,9/0,7	1,4	27,5	1967	0,524/1,15	B2ca-s1b, d0,a1
4x50RM+25RM	1,0/0,9	1,5	32,2	2697	0,387/0,727	B2ca-s1b, d0,a1
4x70RM+35RM	1,1/0,9	1,6	36,4	3714	0,268/0,524	B2ca-s1b, d0,a1
4x95RM+50RM	1,1/1	1,7	41,6	5011	0,193/0,387	B2ca-s1b, d0,a1
5x1,5RE	0,7	1,2	10,7	182	12,1	B2ca-s1b, d0,a1
5x1,5RM	0,7	1,2	11,2	194	12,1	B2ca-s1b, d0,a1
5x2,5RE	0,7	1,2	11,7	242	7,41	B2ca-s1b, d0,a1
5x2,5RM	0,7	1,2	12,4	259	7,41	B2ca-s1b, d0,a1
5x4RE	0,7	1,2	12,9	329	4,61	B2ca-s1b, d0,a1
5x4RM	0,7	1,2	13,8	352	4,61	B2ca-s1b, d0,a1
5x6RE	0,7	1,2	14,2	440	3,08	B2ca-s1b, d0,a1
5x6RM	0,7	1,2	14,7	455	3,08	B2ca-s1b, d0,a1
5x10RE	0,7	1,3	16,6	666	1,83	B2ca-s1b, d0,a1
5x10RM	0,7	1,3	17,4	694	1,83	B2ca-s1b, d0,a1
5x16RE	0,7	1,3	19	973	1,15	B2ca-s1b, d0,a1
5x16RM	0,7	1,3	20,1	1019	1,15	B2ca-s1b, d0,a1
5x25RM	0,9	1,4	26,1	1639	0,727	B2ca-s1b, d0,a1
5x35RM	0,9	1,5	29,2	2174	0,524	B2ca-s1b, d0,a1

N2XH 0,6/1kV JW-25-08-17

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N2XH-J,O 0,6/1kV

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



National: VDE 0276-604

* based on norm

Number and cross-sectional area of conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	CPR class reaction to fire
$n \times mm^2$	mm	mm	mm	kg/km	Ω/km	
3x50SM/25RM	1/0,9	1,5	26,9	1918	0,387/0,727	B2ca-s1a, d0,a1
3x70SM/35SM	1,1/0,9	1,5	30	2663	0,268/0,524	B2ca-s1a, d0,a1
3x95SM/50SM	1,1/1	1,6	33,6	3581	0,193/0,387	B2ca-s1a, d0,a1
3x120SM/70SM	1,2/1,1	1,7	36,8	4533	0,153/0,268	B2ca-s1a, d0,a1
3x150SM/70SM	1,4/1,1	1,8	41,4	5456	0,124/0,268	B2ca-s1a, d0,a1
3x185SM/95SM	1,6/1,1	1,9	45,4	6837	0,0991/0,193	B2ca-s1a, d0,a1
3x240SM/120SM	1,7/1,2	2	51,2	8863	0,0754/0,153	B2ca-s1a, d0,a1
3x300SM/150SM	1,8/1,4	2,1	56,6	10974	0,0601/0,124	B2ca-s1a, d0,a1
4x50SM	1	1,5	26,9	2123	0,387	B2ca-s1a, d0,a1
4x70SM	1,1	1,6	31,4	3007	0,268	B2ca-s1a, d0,a1
4x95SM	1,1	1,7	35	4048	0,193	B2ca-s1a, d0,a1
4x120SM	1,2	1,7	38,9	5057	0,153	B2ca-s1a, d0,a1
4x150SM	1,4	1,8	43	6210	0,124	B2ca-s1a, d0,a1
4x185SM	1,6	1,9	47,4	7703	0,0991	B2ca-s1a, d0,a1
4x240SM	1,7	2	53,3	10037	0,0754	B2ca-s1a, d0,a1
4x300SM	1,8	2,1	58,1	12416	0,0601	B2ca-s1a, d0,a1

Number and cross-sectional area of conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	CPR class reaction to fire
$n \times mm^2$	mm	mm	mm	kg/km	Ω/km	
7x1,5RE	0,7	1,2	11,5	222	12,1	-
7x1,5RM	0,7	1,2	12,1	235	12,1	-
7x2,5RE	0,7	1,2	12,6	300	7,41	-
7x2,5RM	0,7	1,2	13,4	320	7,41	-
7x4RE	0,7	1,2	14	416	4,61	-
8x1,5RE	0,7	1,2	12,1	249	12,1	-
8x2,5RE	0,7	1,2	13,3	339	7,41	-
10x1,5RE	0,7	1,2	14,2	311	12,1	-
10x1,5RM	0,7	1,2	15	330	12,1	-
10x2,5RE	0,7	1,3	16	432	7,41	-
10x2,5RM	0,7	1,3	17	460	7,41	-
10x4RE	0,7	1,3	17,8	599	4,61	-

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N2XH-J,O 0,6/1kV

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



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* based on norm

Number and cross-sectional area of conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	CPR class reaction to fire
$n \times mm^2$	mm	mm	mm	kg/km	Ω/km	
12x1,5RE	0,7	1,2	14,7	346	12,1	-
12x1,5RM	0,7	1,2	15,5	366	12,1	-
12x2,5RE	0,7	1,3	16,4	484	7,41	-
12x2,5RM	0,7	1,3	17,5	515	7,41	-
12x4RE	0,7	1,3	18,4	678	4,61	-
12x4RM	0,7	1,3	19,6	720	4,61	-
12x6RE*	0,7	1,4	21,8	1010	3,08	-
14x1,5RE	0,7	1,3	15,6	394	12,1	-
14x1,5RM	0,7	1,3	16,5	417	12,1	-
14x2,5RE	0,7	1,3	17,3	545	7,41	-
14x2,5RM	0,7	1,3	18,4	578	7,41	-
14x4RE	0,7	1,3	19,3	766	4,61	-
14x4RM	0,7	1,3	20,7	813	4,61	-
16x1,5RE	0,7	1,3	16,4	439	12,1	-
16x1,5RM	0,7	1,3	17,3	464	12,1	-
16x2,5RE	0,7	1,3	18,2	610	7,41	-
16x2,5RM	0,7	1,3	19,3	646	7,41	-
16x4RE	0,7	1,4	20,5	871	4,61	-
16x4RM	0,7	1,4	22	924	4,61	-
19x1,5RE	0,7	1,3	17,2	496	12,1	-
19x1,5RM	0,7	1,3	18,2	525	12,1	-
19x2,5RE	0,7	1,3	19,1	695	7,41	-
19x2,5RM	0,7	1,3	20,4	736	7,41	-
19x4RE	0,7	1,4	21,6	998	4,61	-
19x4RM	0,7	1,4	23,2	1057	4,61	-
24x1,5RE	0,7	1,4	20,2	630	12,1	-
24x1,5RM	0,7	1,4	21,4	667	12,1	-
24x2,5RE	0,7	1,4	22,4	882	7,41	-
24x2,5RM	0,7	1,4	23,9	935	7,41	-
30x1,5RE	0,7	1,4	21,3	742	12,1	-
30x1,5RM	0,7	1,4	22,6	783	12,1	-
30x2,5RE	0,7	1,4	23,7	1049	7,41	-
30x2,5RM	0,7	1,4	25,3	1109	7,41	-

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N2XH-J,O 0,6/1kV

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







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* based on norm

Number and cross-sectional area of conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	CPR class reaction to fire
$n \times \text{mm}^2$	mm	mm	mm	kg/km	Ω/km	
37x1,5RE	0,7	1,4	22,9	880	12,1	-
37x1,5RM	0,7	1,4	24,3	928	12,1	-
37x2,5RE	0,7	1,5	25,8	1266	7,41	-
37x2,5RM	0,7	1,5	27,5	1337	7,41	-
40x1,5RE	0,7	1,4	23,6	943	12,1	-
40x2,5RE	0,7	1,5	26,5	1359	7,41	-
40x2,5RM	0,7	1,5	28,3	1435	7,41	-

Current ratings*

Operating temperature at conductor 90°C; ambient air temperature 30°C

Installation	 ¹⁾			
Number of loaded cores	1	3		3
laying in air				
Cross-section, mm ²	Current ratings in Ampere (A)			
1,5	33	24		26
2,5	43	32		34
4	57	42		44
6	72	53		56
10	99	74		77
16	131	98		102
25	177	133		138
35	217	162		170
50	265	197		207
70	336	250		263
95	415	308		325
120	485	359		380
150	557	412		437
185	646	475		507
240	774	564		604
300	901	-		697
400	1060	-		811
500	1252	-		940

¹⁾ Rated current for direct current systems with a far-distanced return conductor.

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The values are referred to the following basic conditions:

Laying in air	
Ambient temperature:	30°C
Load factor:	1,0
Arrangement: free in air, protection against direct solar radiation, no external heat sources, unrestricted dissipation of heat	

Correction factors for various ambient air temperatures

Ambient temperature, °C	10	15	20	25	30	35	40	45	50
Rating factor	1,15	1,12	1,08	1,04	1,00	0,96	0,91	0,87	0,82

* As defined in DIN VDE 0276-604, DIN VDE 0276-627, HD 604 S1, HD 627 S1.
Conversion factors for deviating ambient temperature defined in DIN VDE 0298 part 4.



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