

N2XH flex

Flexible power and control cable, 0,6/1 kV
+90 °C service temperature, low-smoke, halogen free, fire retardant, UV resistant
IEC 60502-1 and EN 50575

Application

Flexible and halogen-free power and control cable with improved fire characteristics for fixed installations in industrial or domestic environment and public buildings. Particularly suitable for installations with limited room and/or with a lot of bends with short radius. For buildings with high concentrations of people or valuable equipment, especially in difficult evacuation conditions. For fixed installation in open air, buried or in conduits.

Construction



1. Conductor: Copper conductor, flexible (class 5)
2. Insulation: XLPE insulation
Identification: According to HD 308 S2
3. Core covering: Halogen free compound
4. Outer sheath: Halogen free polyolefin, black

Technical information

Operating voltage		0,6/1 kV
Max. permissible temperature at conductor		90 °C
Max. short circuit temperature of the conductor		250 °C
Min. Installation temperature		0 °C
Operating temperature		-40 °C to 90 °C
Min. bending radius mm		5 x outer diameter in mm
Safety parameters		
Reaction to fire		EN 50399 C _{ca} – s1a, d1, a1
	on request	EN 50399 B2 _{ca} – s1a, d1, a1
Flame spread	single cable	IEC 60332-1
	bunched cables	IEC 60332-3
Halogen free		IEC 60754-1 /-2
Smoke density		IEC 61034-1/ -2
Additional parameters		
UV resistance		EN 50618
Water resistance		AD5 Jets
Impact resistance		AG2 Medium severity
Chemical and oil resistance		acceptable

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N° of cores and cross section mm ²	Outer diameter approx. mm	Current rating air 30 °C * A max.	Current rating directly buried 20 °C ** A max.	Weight approx. kg/km
1 x 2,5	7,5	29	30	85
1 x 4	8,1	40	39	100
1 x 6	8,6	53	49	125
1 x 10	9,2	74	65	165
1 x 16	10,2	101	84	225
1 x 25	11,3	135	107	305
1 x 35	12,2	169	129	400
1 x 50	13,9	207	153	535
1 x 70	15,8	268	188	730
1 x 95	17,6	328	226	945
1 x 120	19,5	383	257	1.185
1 x 150	21,7	444	287	1.470
1 x 185	23,8	510	324	1.770
1 x 240	26,7	607	375	2.310
1 x 300	29,5	703	419	2.905
1 x 400	34,2	823	493	3.825
1 x 500	37,9	946	558	4.885
2 x 1,5	9,8	26	26	130
2 x 2,5	10,7	36	34	165
2 x 4	11,1	49	44	190
2 x 6	12,2	63	56	245
2 x 10	13,6	86	73	355
2 x 16	15,3	100	84	495
3 G 1,5	11,3	26	26	170
3 G 2,5	12,1	36	34	210
3 G 4	12,2	49	44	240
3 G 6	13,4	63	56	315
3 G 10	14,8	86	73	450
3 x 16	16,8	100	84	645
3 x 25	21,4	127	107	1.020
3 x 35	23,8	158	129	1.345
3 x 50	27,2	192	153	1.825
3 x 70	30,3	246	188	2.470

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N° of cores and cross section mm ²	Outer diameter approx. mm	Current rating air 30 °C *	Current rating directly buried 20 °C **	Weight approx. kg/km
		A max.	A max.	
4 G 1,5	11,7	23	23	185
4 G 2,5	12,2	32	30	225
4 G 4	13,2	42	39	290
4 G 6	14,7	54	49	385
4 G 10	16,3	75	65	565
4 x 16	18,8	100	84	815
4 x 25	23,8	127	107	1.275
4 x 35	25,9	158	129	1.700
4 x 50	30,1	192	153	2.310
4 x 70	34,8	246	188	3.185
4 x 95	39,9	298	226	4.184
4 x 120	44,8	346	257	5.305
4 x 150	49,3	399	287	6.548
4 x 185	54,8	456	324	7.965
4 x 240	61,7	538	375	10.370
5 G 1,5	13,1	23	23	235
5 G 2,5	14,4	32	30	300
5 G 4	14,8	42	39	360
5 G 6	16,3	54	49	470
5 G 10	18,0	75	65	685
5 G 16	20,9	100	84	1.000
5 G 25	25,9	127	107	1.550
5 G 35	28,3	158	129	2.050
5 G 50	33,7	192	153	2.840
5 G 70	38,6	246	188	3.905
5 G 95	43,5	298	226	5.080
5 G 120	49,5	346	257	6.395
5 G 150	55,1	399	287	7.935
5 G 185	61,1	456	324	9.665
5 G 240	68,8	538	375	12.620

* According to IEC 60364-5-52 reference method F for single-core and method E for multicore

** According to IEC 60364-5-52, Reference method D2. Directly buried at 0,7 m depth with soil thermal resistivity of 2,5 K·m/W and 20°C of ground temperature