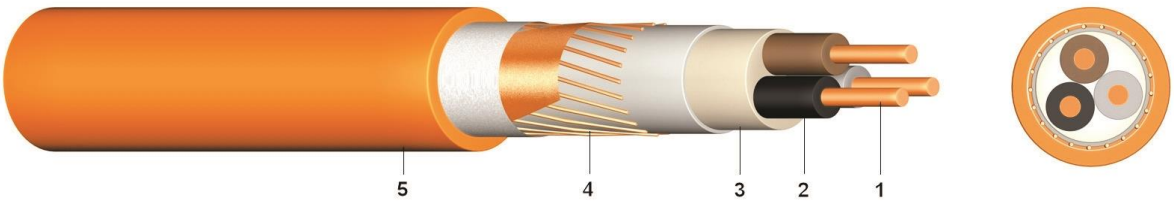
(N)HXCH E90 Halogen-Free Cable with Concentric Conductor and Circuit Integrity of 90 Minutes

Application:

Halogen-free power cables with improved fire performance may be installed indoors, in the air or in concrete. Direct installation in soil or water is not permitted. However, laying in the pipe is permissible if precautions have been taken to ensure that no water accumulates in the pipe. When laying outdoors, protection against direct sunlight must be provided.
During installation, care must be taken to ensure that the cables are protected against external influences and mechanical damage. Function preservation of the cable system 90 min. (System test), isolation preservation over 180 min.



Construction:

1 ..... solid or stranded bare copper
2 ..... core insulation made of cross-linked, halogen-free, ceramizable 2 layered insulation (HXI 2)
3 ..... halogen-free inner sheath
4 ..... concentric conductor formed by copper wires with counter helix of copper tape
5 ..... outer sheath of halogen-free polymer (HM 4), orange

Information:

These cables fulfil the conditions of the tests to insulation integrity according to DIN VDE 0472-814/ 8.83 about 180 min. and IEC Public. 331 first edition 1970 to circuit integrity about 30 min. according to VDE 0100-710 and 0100-718.

Standards:

DIN VDE 0266
DIN VDE 0276-604
DIN EN 60228 class 1 and 2 (construction)
HD 308 S2 (core identification)

Technical data:

Nominal voltage Uo/U		[V]	600 / 1000 Volt
Test voltage		$[V]_{AC}$	4000
Temperature range	in motion		-5°C till +90°C
Operating temperature	short circuit	°C	250°C
Short circuit time	max.	[sec]	5
Bending radius	in motion	x diameter	12,0
Flammability	standard		EN 50266-2-4 IEC 60332-3 Kat.C

Number of cores and nominal cross section mm²	from stock	Copper figure kg / km	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
2 x 1,5 RE/1,5	○	54	16,0	0,72	300
2 x 2,5 RE/2,5	○	83	17,0	0,81	350
3 x 1,5 RE/1,5	○	73	16,8	1,12	363
3 x 2,5 RE/2,5	○	113	17,9	1,24	434
3 x 4 RE/4	○	168	19,0	1,35	434
3 x 6 RE/6	○	250	21,0	1,49	434

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Number of cores and nominal cross section mm²	from stock	Copper figure kg / km	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
3 x 10 RE/ 10	○	425	24,1	2,06	949
3 x 16 RE/ 16	○	670	27,3	2,43	1.340
3 x 25 RE/ 16	○	1.045	30,7	3,22	1.766
3 x 35 RE/ 16	○	1.460	33,3	3,64	2.172
3 x 50 RE/ 25	○	2.083	37,4	4,51	2.857
3 x 70 RE/ 35	○	2.913	42,5	5,58	3.839
3 x 95 RE/ 50	○	3.949	47,8	7,00	5.082
3 x 120 RE/ 50	○	4.985	51,4	7,83	6.204
3 x 150 RE/ 70	○	5.313	55,7	9,21	7.340
3 x 185 RE/ 95	○	6.649	61,7	11,07	9.142
3 x 240 RE/ 120	○	8.585	67,9	13,36	11.582
4 x 1,5 RE/ 1,5	○	88	18,0	1,11	450
4 x 2,5 RE/ 2,5	○	138	19,2	1,42	505
4 x 4 RE/ 4	○	208	20,3	1,53	608
4 x 6 RE/ 6	○	310	22,5	1,71	777
4 x 10 RE/ 10	○	525	26,4	2,42	1.153
4 x 16 RM/ 16	○	829	29,3	2,75	1.584
4 x 25 RM/ 16	○	1.190	33,1	3,67	2.120
4 x 35 RM/ 16	○	1.590	36,0	4,14	2.634
4 x 50 RM/ 25	○	2.295	41,1	5,38	3.524
4 x 70 RM/ 35	○	3.210	46,2	6,46	4.695
4 x 95 RM/ 50	○	4.383	52,0	8,09	6.242
4 x 120 RM/ 70	○	5.613	56,0	9,04	7.622
4 x 150 RM/ 70	○	6.813	61,0	10,78	9.096
4 x 185 RM/ 95	○	8.499	67,5	12,92	11.307
4 x 240 RM/120	○	10.985	74,4	15,60	14.359
7 x 1,5 RE/ 1,5	○	139	20,9	1,67	588
12 x 1,5 RE/ 2,5	○	214	26,2	2,57	620
24 x 1,5 RE/ 6	○	430	37,6	5,66	1.979
7 x 2,5 RE/ 2,5	○	208	22,1	1,91	696
12 x 2,5 RE/ 2,5	○	348	28,2	2,83	1.168
24 x 2,5 RE/ 2,5	○	725	41,0	6,56	2.465

More types on enquiry

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