

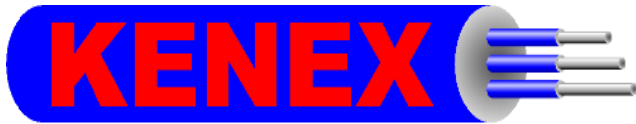


<b>conductor material:</b>	bare copper
<b>conductor construction:</b>	class 1, from 25sqmm calss 2
<b>insulation:</b>	FRNC compound HI1
<b>sheathing material:</b>	FRNC compound HM1
<b>max. temperature at conductor:</b>	90°C
<b>max. operating temperature, fixed:</b>	-5 to +70°C
<b>bending radius, fixed installation:</b>	12 x DA
<b>halogen free:</b>	DIN EN 50267/IEC 60754
<b>flame retardant:</b>	VDE 0482-266-2-4/IEC 60332-3
<b>circuit integrity:</b>	E 90
<b>circuit integrity:</b>	FE 180
<b>smoke density:</b>	DIN EN 61034/IEC 61034
<b>test voltage:</b>	4 kV
<b>nominal voltage U0:</b>	0,6 kV
<b>nominal voltage U:</b>	1 kV
<b>max. permitted operating voltage in 3-phase systems:</b>	1,2 kV

**application:**

For installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in ground and not for use in water. The cable has improved flame retardant and may be used in public buildings with high safety requirements. Cables are halogen free, low smoke density and are fire resistant acc. to VDE 0472 part 814 (180 min., = IEC 331) furthermore the cable passed the test of 90 min. circuit integrity acc. to DIN 4102 part 12 (E90) for all so called standard-installation systems (ladder, tray and ceiling) and is suitable for installation in fire alarm systems, safety lightning and other emergency electrical supply systems acc. to VDE 0108. A special test certificate about the circuit integrity is issued by the "Amtlichen Materialprüfanstalt für das Bauwesen". For calculation of electrical systems with circuit integrity has to be considered that electrical resistance of copper conductors at 1000°C is approximately 4,5 times higher than at 20°C and the current carrying capacity has to be reduced respectively.

*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.*



**SPEZIALKABEL / SPEZIALLEITUNGEN**

## NHXH-FE 180/E90

halogenfree power cable according to VDE 0266

KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM <sup>2</sup>	RI Ω/KM	IBI A	RBF MM	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
86010160	NHXH-O E90 1 x 16 RE	1,15	97	165	10,5	154	230
86010250	NHXH-O E90 1 x 25 RM	0,727	135	195	12,5	240	340
86010350	NHXH-O E90 1 x 35 RM	0,524	165	210	13,5	336	440
86010500	NHXH-O E90 1 x 50 RM	0,387	201	240	13,9	480	600
86010700	NHXH-O E90 1 x 70 RM	0,268	255	270	16,5	672	800
86010950	NHXH-O E90 1 x 95 RM	0,193	314	300	18,9	912	1100
86011200	NHXH-O E90 1 x 120 RM	0,153	364	315	20,5	1152	1350
86011500	NHXH-O E90 1 x 150 RM	0,124	416	360	22,5	1440	1650
86011850	NHXH-O E90 1 x 185 RM	0,0991	480	390	24,9	1776	2000
86012400	NHXH-O E90 1 x 240 RM	0,0754	565	435	27,9	2304	2600
86013000	NHXH-O E90 1 x 300 RM	0,0601	-	480	30,9	2880	3200
86014000	NHXH-O E90 1 x 400 RM	-	-	-	34,9	3840	4200
86020015	NHXH-O E90 2 x 1,5 RE	12,1	24	168	13,9	29	210
86030015	NHXH-J E90 3 x 1,5 RE	12,1	24	162	14,9	43	210
86030025	NHXH-J E90 3 x 2,5 RE	7,41	32	175,2	15,9	72	243
86030040	NHXH-J E90 3 x 4 RE	4,61	42	186	16,7	115	302
86030060	NHXH-J E90 3 x 6 RE	3,08	53	198	17,8	173	399
86030100	NHXH-J E90 3 x 10 RE	1,83	73	228	19,4	288	546
86030160	NHXH-J E90 3 x 16 RM	1,15	97	264	22,3	461	765
86040015	NHXH-J E90 4 x 1,5 RE	12,1	24	187,8	16,1	58	245
86040025	NHXH-J E90 4 x 2,5 RE	7,41	32	192	16,9	96	299
86040040	NHXH-J E90 4 x 4 RE	4,61	42	207,6	17,9	154	376
86040060	NHXH-J E90 4 x 6 RE	3,08	53	222	19,2	230	474
86040100	NHXH-J E90 4 x 10 RE	1,83	73	246	21,1	384	657
86040160	NHXH-J E90 4 x 16 RE	1,15	97	289,2	24,3	614	973
86040250	NHXH-J E90 4 x 25 RM	0,727	135	321,6	28,1	960	1422
86040350	NHXH-J E90 4 x 35 RM	0,524	165	360	30,9	1344	1858
86040500	NHXH-J E90 4 x 50 RM	0,387	201	-	35,1	1920	2900
86040700	NHXH-J E90 4 x 70 RM	0,268	255	-	39,9	2688	3900
86040950	NHXH-J E90 4 x 95 RM	0,193	314	-	45,2	3648	5200
86041200	NHXH-J E90 4 x 120 RM	0,153	364	-	48,9	4608	6300
86041500	NHXH-J E90 4 x 150 RM	0,124	416	-	50,9	5760	6800
86042400	NHXH-J E90 4 x 240 RM	0,0754	565	-	64,9	9216	10700
86050015	NHXH-J E90 5 x 1,5 RE	12,1	24	190,8	17,4	72	290
86050025	NHXH-J E90 5 x 2,5 RE	7,41	32	204	18,4	120	359
86050040	NHXH-J E90 5 x 4 RE	4,61	42	223,2	19,5	192	457
86050060	NHXH-J E90 5 x 6 RE	3,08	53	242,4	20,9	288	577
86050100	NHXH-J E90 5 x 10 RE	1,83	73	267,6	22,9	480	807
86050160	NHXH-J E90 5 x 16 RE	1,15	97	318	26,6	768	1145
86050250	NHXH-J E90 5 x 25 RM	0,727	135	360	30,9	1200	1765
86070015	NHXH-J E90 7 x 1,5 RE	12,1	24	216	18,6	101	350
86070025	NHXH-J E90 7 x 2,5 RE	7,41	32	228	19,8	168	443
86120015	NHXH-J E90 12 x 1,5 RE	12,1	24	282	23,5	173	545
86120025	NHXH-J E90 12 x 2,5 RE	7,41	32	312	25,2	288	780
86240015	NHXH-J E90 24 x 1,5 RE	12,1	24	348	26,9	346	735