



conductor material:	bare copper
conductor construction:	class 1, from 25 sqmm class 2
insulation:	FRNC compound HI1
sheathing material:	FRNC-compound HM1
max. temperature at conductor:	90°C
max. operating temperature, fixed:	-5 to +70°C
bending radius, fixed installation:	12 x DA
circuit integrity:	E 30
circuit integrity:	FE 180
flame retardant:	VDE 0482-266-2-4/IEC 60332-3
halogen free:	DIN EN 50267/IEC 60754
smoke density:	DIN EN 61034/IEC 61034
core identification:	colours acc. VDE 0293 (HD308)
nominal voltage U₀:	0,6kV
nominal voltage U:	1 kV
test voltage:	4 kV
max. permitted operating voltage in 3-phase:	1,2 kV

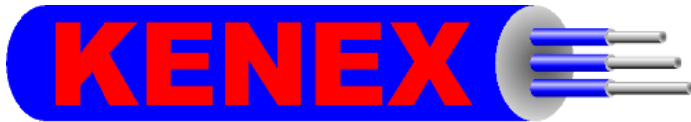
application:

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 according to VDE 0472 part 814(180min., = IEC60331). Furthermore the cable passed the test of 30min. circuit integrity acc. to DIN 4102 part 12 (E30) 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 800°C is approximately four times higher than at 20°C and the current carrying capacity is 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.

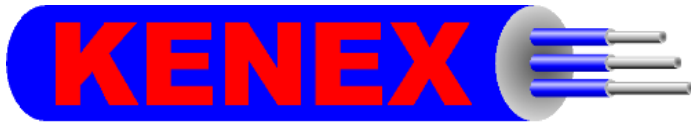


SPEZIALKABEL / SPEZIALLEITUNGEN

NHXX-FE 180/E30

halogenfree power cables according to VDE 0266

KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM ²	RI Ω/KM	IBI A	RBF MM	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
83010040	NHXX-O E30 1 x 4 RE	4,61	42	120	6,9	38	100
83010060	NHXX-O E30 1 x 6 RE	3,08	53	135	7,9	58	120
83010100	NHXX-O E30 1 x 10 RE	1,83	73	150	8,1	96	160
83010160	NHXX-O E30 1 x 16 RM	1,15	97	180	8,9	154	200
83010250	NHXX-O E30 1 x 25 RM	0,727	135	195	10,9	240	310
83010350	NHXX-O E30 1 x 35 RM	0,524	165	225	11,9	336	410
83010500	NHXX-O E30 1 x 50 RM	0,387	201	240	12,9	480	540
83010700	NHXX-O E30 1 x 70 RM	0,268	255	270	15,9	672	740
83010950	NHXX-O E30 1 x 95 RM	0,193	314	300	17,9	912	1020
83011200	NHXX-O E30 1 x 120 RM	0,153	364	330	18,9	1152	1380
83011500	NHXX-O E30 1 x 150 RM	0,124	416	360	20,9	1440	1560
83011850	NHXX-O E30 1 x 185 RM	0,0991	480	405	23,9	1776	1930
83012400	NHXX-O E30 1 x 240 RM	0,0754	565	450	26,9	2304	2540
83013000	NHXX-O E30 1 x 300 RM	0,0601		495	32,9	2880	3180
83020015	NHXX-O E30 2 x 1,5 RE	12,1	24	145,2	10,2	29	190
83020025	NHXX-O E30 2 x 2,5 RE	7,41	32	146,4	10,9	48	220
83020040	NHXX-O E30 2 x 4 RE	4,61	42	158,4	11,9	77	270
83020060	NHXX-O E30 2 x 6 RE	3,08	53	170,4	12,8	115	320
83020100	NHXX-O E30 2 x 10 RE	1,83	73	196,8	14,4	192	430
83020160	NHXX-O E30 2 x 16 RM	1,15	97	234	17,3	307	620
83020250	NHXX-O E30 2 x 25 RM	0,727	135	267,6	21,1	480	900
83030015	NHXX-J E30 3 x 1,5 RE	12,1	24	156	10,9	43	210
83030025	NHXX-J E30 3 x 2,5 RE	7,41	32	168	11,9	72	260
83030040	NHXX-J E30 3 x 4 RE	4,61	42	180	12,9	115	320
83030060	NHXX-J E30 3 x 6 RE	3,08	53	192	13,9	173	400
83030100	NHXX-J E30 3 x 10 RE	1,83	73	216	15,9	288	550
83030160	NHXX-J E30 3 x 16 RM	1,15	97	264	17,9	461	790
83030250	NHXX-J E30 3 x 25 RM	0,727	135	300	23,9	720	1150
83030350	NHXX-J E30 3 x 35 RM	0,524	165	324	25,9	1008	1490
83030500	NHXX-J E30 3 x 50 RM	0,387	201	348	28,9	1440	1980
83030700	NHXX-J E30 3 x 70 RM	0,268	255	396	31,9	2016	2830
83302516	NHXX-J E30 3 x 25/16 RM	0,727	135	324	23,4	874	1500
83303516	NHXX-J E30 3 x 35/16 RM	0,524	165	348	26,9	1162	1800
83305025	NHXX-J E30 3 x 50/25 RM	0,387	201	432	29,9	1680	2600
83307035	NHXX-J E30 3 x 70/35 RM	0,268	255	480	34,9	2352	3400
83309550	NHXX-J E30 3 x 95/50 RM	0,193	314	552	38,9	3216	4600
83312070	NHXX-J E30 3 x 120/70 RM	0,153	364	600	42,9	4128	5700
83315070	NHXX-J E30 3 x 150/70 RM	0,124	416	648	46,9	4992	6800
83318595	NHXX-J E30 3 x 185/95 RM	0,0991	480	720	52,9	6240	8500
83324012	NHXX-J E30 3 x 240/120 RM	0,0754	565	756	58,8	8064	11000



SPEZIALKABEL / SPEZIALLEITUNGEN

NHXH-FE 180/E30

halogenfree power cables according to VDE 0266

KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM ²	RI Ω/KM	IBI A	RBF MM	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
83040015	NHXH-J E30 4 x 1,5 RE	12,1	24	180	11,9	58	240
83040025	NHXH-J E30 4 x 2,5 RE	7,41	32	192	12,9	96	300
83040040	NHXH-J E30 4 x 4 RE	4,61	42	204	13,9	154	390
83040060	NHXH-J E30 4 x 6 RE	3,08	53	228	14,9	230	490
83040100	NHXH-J E30 4 x 10 RE	1,83	73	252	16,9	384	670
83040160	NHXH-J E30 4 x 16 RM	1,15	97	300	19,9	614	950
83040250	NHXH-J E30 4 x 25 RM	0,727	135	312	24,9	960	1430
83040350	NHXH-J E30 4 x 35 RM	0,524	165	348	27,9	1344	1890
83040500	NHXH-J E30 4 x 50 RM	0,387	201	408	31,9	1920	2510
83040700	NHXH-J E30 4 x 70 RM	0,268	255	456	36,9	2688	3650
83040950	NHXH-J E30 4 x 95 RM	0,193	314	528	40,9	3648	4750
83041200	NHXH-J E30 4 x 120 RM	0,153	364	576	44,9	4608	5910
83041500	NHXH-J E30 4 x 150 RM	0,124	416	624	49,9	5760	7240
83050015	NHXH-J E30 5 x 1,5 RE	12,1	24	216	12,9	72	280
83050025	NHXH-J E30 5 x 2,5 RE	7,41	32	228	13,9	120	354
83050040	NHXH-J E30 5 x 4 RE	4,61	42	192	14,9	192	450
83050060	NHXH-J E30 5 x 6 RE	3,08	53	264	16,9	288	570
83050100	NHXH-J E30 5 x 10 RE	1,83	73	300	18,9	480	820
83050160	NHXH-J E30 5 x 16 RM	1,15	97	324	22,9	768	1140
83050250	NHXH-J E30 5 x 25 RM	0,727	135	372	26,6	1200	1710
83050350	NHXH-J E30 5 x 35 RM	0,524	165		30,5	1680	2384
83070015	NHXH-J E30 7 x 1,5 RE	12,1	24	192	13,9	101	330
83070025	NHXH-J E30 7 x 2,5 RE	7,41	32	216	14,9	168	430
83120015	NHXH-J E30 12 x 1,5 RE	12,1	24	246	18,9	173	500
83120025	NHXH-J E30 12 x 2,5 RE	7,41	32	276	21,9	288	650
83190015	NHXH-J E30 19 x 1,5 RE	12,1	24	288	21,9	274	720
83190025	NHXH-J E30 19 x 2,5 RE	7,41	32	312	23,9	456	950
83240015	NHXH-J E30 24 x 1,5 RE	12,1	24	336	24,9	346	890
83240025	NHXH-J E30 24 x 2,5 RE	7,41	32	366	26,9	576	1210
83300015	NHXH-J E30 30 x 1,5 RE	12,1	24	372	25,9	432	1090
83300015	NHXH-J E30 30 x 2,5 RE	7,41	32	390	28,9	720	1470