



conductor material:	bare copper
conductor construction:	class 1, from 25qmm class 2
insulation:	FRNC compound HI1
concentric conductor:	Cu
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
halogen free:	DIN EN 50267/IEC 60754
flame retardant:	VDE 0482-266-2-4/IEC 60332-2-24
circuit integrity:	E 90
circuit integrity:	FE 180
smoke density:	DIN EN 61034/IEC 61034
nominal voltage U0:	0,6 kV
nominal voltage U:	1 kV
test voltage:	4 kV
max. permitted operating voltage in 3-phase systems:	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 cables 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 90min. circuit integrity acc. to DIN 4102 part12 (E 90) 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

NHXCH-FE 180/E90

halogenfree power cable according to VDE 0266

KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM²	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
87030015	NHXCH E90 3 x 1,5/1,5 RE	16,8	66	348
87030025	NHXCH E90 3 x 2,5/2,5 RE	17,9	104	410
87030040	NHXCH E90 3 x 4/4 RE	18,9	161	500
87030060	NHXCH E90 3 x 6/6 RE	20,9	240	614
87030100	NHXCH E90 3 x 10/10 RE	24,1	408	830
87030160	NHXCH E90 3 x 16/16 RM	27,3	643	1073
87030250	NHXCH E90 3 x 25/16 RM	30,7	902	1450
87030350	NHXCH E90 3 x 35/16 RM	33,3	1190	1798
87030500	NHXCH E90 3 x 50/25 RM	37,4	1723	2394
87030700	NHXCH E90 3 x 70/35 RM	42,5	2410	2796
87030950	NHXCH E90 3 x 95/50 RM	47,8	3296	4434
87031200	NHXCH E90 3 x 120/70 RM	51,4	4236	5534
87031500	NHXCH E90 3 x 150/70 RM	55,7	2100	6546
87031850	NHXCH E90 3 x 185/95 RM	61,7	6383	8303
87032400	NHXCH E90 3 x 240/120 RM	67,9	8242	10605
87040015	NHXCH E90 4 x 1,5/1,5 RE	17,9	81	398
87040025	NHXCH E90 4 x 2,5/2,5 RE	19,2	128	470
87040040	NHXCH E90 4 x 4/4 RE	20,3	200	578
87040060	NHXCH E90 4 x 6/6 RE	22,5	297	726
87040100	NHXCH E90 4 x 10/10 RE	26,4	504	983
87040160	NHXCH E90 4 x 16/16 RM	29,3	796	1370
87040250	NHXCH E90 4 x 25/16 RM	33,1	1142	1904
87040350	NHXCH E90 4 x 35/16 RM	35,9	1526	2427
87040500	NHXCH E90 4 x 50/25 RM	41,1	2203	3177
87040700	NHXCH E90 4 x 70/35 RM	46,2	3082	4378
87040950	NHXCH E90 4 x 95/50 RM	51,9	4208	5803
87041200	NHXCH E90 4 x 120/70 RM	55,9	5388	7230
87041500	NHXCH E90 4 x 150/70 RM	60,9	6540	8707
87041850	NHXCH E90 4 x 185/95 RM	67,5	8159	10894
87042400	NHXCH E90 4 x 240/120 RM	74,4	10546	13933
87050025	NHXCH E90 5 x 2,5/2,5 RE	-	152	480
87050040	NHXCH E90 5 x 4/4 RE	20,5	238	600
87070015	NHXCH E90 7 x 1,5/2,5 RE	20,9	133	498
87070025	NHXCH E90 7 x 2,5/2,5 RE	22,1	200	680
87120015	NHXCH E90 12 x 1,5/2,5 RE	26,2	205	718
87120025	NHXCH E90 12 x 2,5/4 RE	28,4	334	1050
87120040	NHXCH E90 12 x 4/6 RE	-	528	1100
87240015	NHXCH E90 24 x 1,5/6 RE	37,6	413	1305
87240025	NHXCH E90 24 x 2,5/10 RE	40,9	696	1400
87300015	NHXCH E90 30 x 1,5/6 RE	39,8	499	1519
87300025	NHXCH E90 30 x 2,5/10 RE	42,9	840	1550