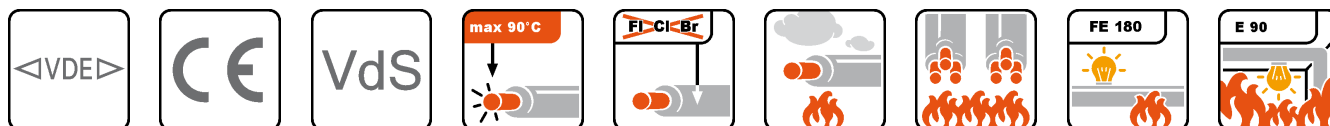


FRNC power cable NHXCH FE180/E90 acc. to VDE 0266

conductor material:	bare copper
conductor construction:	class 1, from 25 sqmm class 2
insulation:	FRNC compound HI1
concentric conductor:	Cu
sheathing material:	FRNC-compound HM1
flame retardant:	VDE 0482-266-2-4/IEC 60332-3-24
smoke density:	DIN EN 61034/IEC 61034
halogen free:	DIN EN 50267/IEC 60754
fire resistance:	FE 180
circuit integrity:	E 90
maximum temperature at conductor:	90 °C
max. operating temperature, fixed:	-5 - +70 °C
bending radius, fixed installation:	12 x DA
core identification:	colours acc. VDE 0293 (HD308)
nominal voltage U₀:	0,6 kV
nominal voltage U:	1 kV
maximum permitted operating voltage in 3-phase systems:	1,2 kV
test voltage:	4 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 (180 min., = IEC 331) Furthermore the cable passed the test of 90 min. circuit integrity according to DIN 4102 part 12 (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 according 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.

table: technical data NHXCH E90

p/n	part-name	DA [mm]	G [kg/km]	CU	p/n	part-name	DA [mm]	G [kg/km]	CU
011042	NHXCH E90 03X1,5/1,5 RE OR	16,8	348	66	011198	NHXCH E90 03X240/120 RM OR	67,9	10605	8242
011043	NHXCH E90 03X2,5/2,5 RE OR	17,9	410	104	010995	NHXCH E90 04X1,5/1,5 RE OR	17,9	398	81
011209	NHXCH E90 03X4/4 RE OR	18,9	500	161	010996	NHXCH E90 04X2,5/2,5 RE OR	19,2	470	128
011208	NHXCH E90 03X6/6 RE OR	20,9	614	240	010997	NHXCH E90 04X4/4 RE OR	20,3	578	200
011207	NHXCH E90 03X10/10 RE OR	24,1	830	408	010987	NHXCH E90 04X6/6 RE OR	22,5	726	297
011206	NHXCH E90 03X16/16 OR	27,3	1073	643	010994	NHXCH E90 04X10/10 RE OR	26,4	983	504
011205	NHXCH E90 03X25/16 RM OR	30,7	1450	902	010998	NHXCH E90 04X16/16 OR	29,3	1370	796
011204	NHXCH E90 03X35/16 RM OR	33,3	1798	1190	010999	NHXCH E90 04X25/16 RM OR	33,1	1904	1142
011197	NHXCH E90 03X50/25 RM OR	37,4	2394	1723	010993	NHXCH E90 04X35/16 RM OR	35,9	2427	1526
011203	NHXCH E90 03X70/35 RM OR	42,5	2796	2410	011000	NHXCH E90 04X50/25 RM OR	41,1	3177	2203
011213	NHXCH E90 03X95/50 RM OR	47,8	4434	3296	011001	NHXCH E90 04X70/35 RM OR	46,2	4378	3082
011202	NHXCH E90 03X120/70 RM OR	51,4	5534	4236	011002	NHXCH E90 04X95/50 RM OR	51,9	5803	4208
011201	NHXCH E90 03X150/70 RM OR	55,7	6546	5100	011003	NHXCH E90 04X120/70 RM OR	55,9	7230	5388
011200	NHXCH E90 03X185/95 RM OR	61,7	8303	6383	011004	NHXCH E90 04X150/70 RM OR	60,9	8707	6540

table: technical data NHXCH E90

p/n	part-name	DA [mm]	G [kg/km]	CU
011005	NHXCH E90 04X185/95 RM OR	67,5	10894	8159
011006	NHXCH E90 04X240/120 RM OR	74,4	13933	10546
011747	NHXCH E90 05X2,5/2,5 RE OR	0	480	152
011749	NHXCH E90 05X4/4 RE OR	20,5	600	238
010988	NHXCH E90 07X1,5/2,5 RE OR	20,9	498	133
011007	NHXCH E90 07X2,5/2,5 RE OR	22,1	680	200
012739	NHXCH E90 10X1,5/2,5 RE OR	23,1	520	176

p/n	part-name	DA [mm]	G [kg/km]	CU
011008	NHXCH E90 12X1,5/2,5 RE OR	26,2	718	205
011009	NHXCH E90 12X2,5/4 RE OR	28,4	1050	334
011748	NHXCH E90 12X4/6 RE OR	0	1100	528
011210	NHXCH E90 24X1,5/6 RE OR	37,6	1305	413
011211	NHXCH E90 24X2,5/10 RE OR	40,9	1400	696
011212	NHXCH E90 30X1,5/6 RE OR	39,8	1519	499
011199	NHXCH E90 30X2,5/10 RE OR	42,9	1550	840

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