

FRNC power cable (N)HXH FE180/E30 plus



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 properties in case of fire and may be used in public buildings with high safety requirements. The cable is halogen-free, has a low smoke density and is fire-resistant according to VDE 0472 part 814 /IEC 60331-11 for 180 minutes. Furthermore the cable passed the test of 30 min. circuit integrity according to DIN 4102 part 12 (E 30).

Construction and technical data:

Standard:	VDE 0266
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E30
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø



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.

(N)HXH-O E30 Plus

Nominal voltage U_o: 0.6 kV
Nominal voltage U: 1 kV
Test voltage: 4 kV
Protective conductor: no
Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name		RI [Ohm/km]	Ø [mm]	Cu	G [kg]
015020	02X1.5	RE	12.1	7.8	29	95
015021	02X2.5	RE	7.41	8.8	48	130
015022	02X4	RE	4.61	10.2	77	180
015023	02X6	RE	3.08	11.3	115	235
015024	02X10	RE	1.83	13.8	192	365

(N)HXH-J E30 Plus

Nominal voltage U_o: 0.6 kV
Nominal voltage U: 1 kV
Test voltage: 4 kV
Protective conductor: yes
Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name		RI [Ohm/km]	Ø [mm]	Cu	G [kg]
015025	03X1.5	RE	12.1	8	43	115
015026	03X2.5	RE	7.41	9.2	72	160
015027	03X4	RE	4.61	10.8	115	220
015028	03X6	RE	3.08	12.2	173	295
015029	03X10	RE	1.83	14.6	288	455
015030	04X1.5	RE	12.1	9.1	58	140
015031	04X2.5	RE	7.41	10.4	96	195
015032	04X6	RE	3.08	13.5	230	375
015033	04X10	RE	1.83	16.2	384	575
015034	05X1.5	RE	12.1	10	72	165
015035	05X2.5	RE	7.41	11.3	120	230
015036	05X4	RE	4.61	13	192	325
015037	05X6	RE	3.08	14.8	288	445
015038	05X10	RE	1.83	17.9	480	705
015039	07X1.5	RE	12.1	10.8	101	210
015040	07X2.5	RE	7.41	12.5	168	300

RI	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000