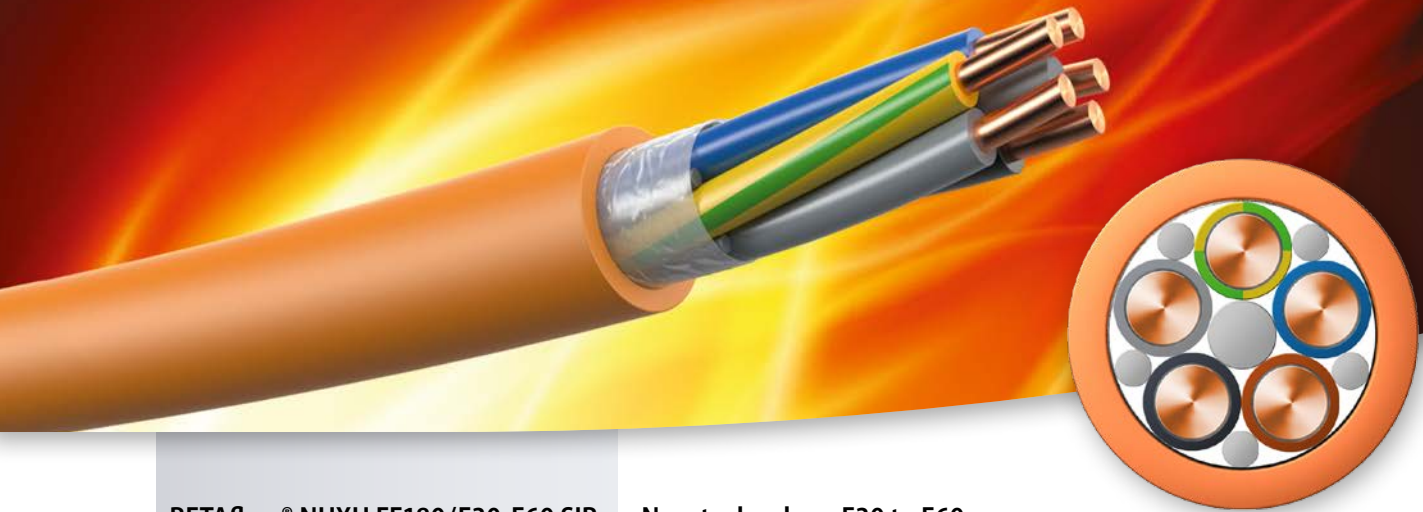


BETAflam[®] Fire safety cables

DIN VDE 0266



BETAflam[®] NHXH FE180/E30-E60 SIR

Applications

- Lighting of escape routes
- Fire alarm systems
- Smoke exhaust systems
- Recommended in areas where people gather and for protection of valuables

Advantages

- Very high safety standards
- System circuit integrity acc. to DIN 4102 part 12
- DIN approved with LEONI BETAfixss[®] cable support system and many more
- Halogen-free
- In compliance with RoHS directive

Laying conditions

- Fixed installation indoor, in air or concrete
- Laying in earth or water only in water-proof dry tubes
- Outdoor laying only when protected from direct sunlight and other external impacts

New technology E30 to E60

Power cable 0.6 / 1 kV for fixed installation in cable systems with improved fire performance and system circuit integrity acc. to DIN 4102 part 12.

Standards / Material properties

- Halogen-free: IEC 60754-1, EN 50267-2-1, VDE 0482-267-2-1
- No corrosive gases: IEC 60754-2, EN 50267-2-2, VDE 0482-267-2-2
- No toxic gases: NF X 70-100, NF C20-454
- Low smoke density: IEC 61034-1 and -2, EN 61034-1 and -2, VDE 0482-1034-1 and -2
- Flame retardant: IEC 60332-1, EN 60332-1, VDE 0482-332-1
- No flame propagation: IEC 60332-3-10 and -3-24, EN 60332-3-10-24, VDE 0482-332-3-24
- Circuit integrity FE180: IEC 60331-11 and -21, VDE 0472-814
- System circuit integrity: DIN 4102-12, E30 to E60, depending on laying system

LEONI

Construction

■ Conductors	Bare annealed copper
■ Insulation	Silicone cross-linked
■ Inner covering	Tape or filler
■ Sheath	BETAflam® copolymer
■ Core identification	acc. to VDE 0266 resp. HD 308 S2
■ Sheath colour	Orange

Electrical characteristics

Rated voltage	U_0/U 0,6/1 kV
Test voltage	4 kV with 50 Hz

Thermal characteristics

Operation temperature	-30 °C up to +90 °C
Laying temperature	-5 °C up to +70 °C
Short circuit temperature (temperature peak < 5 s)	up to +250 °C

Bending radius

cable design	single core	multiple core
during laying	> 15 × outer Ø	> 12 × outer Ø
fixed	> 8 × outer Ø	> 7 × outer Ø

Cable type	Construction n × mm ²	Core function	Outer Ø mm	Weight kg / km	Cu factor kg / km	Fire Load kWh/m	Order no.	
							Germany	Switzerland
NHXX-O FE180/E30-E60 S OR	1 × 6 RE	L	7,6	112	58	0,25	on request	312002
NHXX-O FE180/E30-E60 S OR	1 × 10 RE	L	8,3	153	96	0,28	on request	312003
NHXX-O FE180/E30-E60 S OR	1 × 16 RM	L	9,6	223	154	0,35	on request	312004
NHXX-O FE180/E30-E60 S OR	2 × 1.5 RE	LN	10,5	141	29	0,46	on request	312005
NHXX-O FE180/E30-E60 S OR	2 × 2.5 RE	LN	11,3	170	48	0,52	on request	312006
NHXX-O FE180/E30-E60 S OR	2 × 4 RE	LN	12,5	222	77	0,61	on request	312007
NHXX-J FE180/E30-E60 S OR	3 × 1.5 RE	LNPE	11,0	152	43	0,49	on request	312008
NHXX-J FE180/E30-E60 S OR	3 × 2.5 RE	LNPE	11,9	189	72	0,55	on request	312009
NHXX-J FE180/E30-E60 S OR	3 × 4 RE	LNPE	13,0	247	115	0,62	on request	312010
NHXX-J FE180/E30-E60 S OR	3 × 6 RE	LNPE	14,1	317	173	0,71	on request	312011
NHXX-J FE180/E30-E60 S OR	3 × 10 RE	LNPE	15,8	444	288	0,83	on request	312012
NHXX-J FE180/E30-E60 S OR	4 × 1.5 RE	3LPE	11,9	185	58	0,59	on request	312013
NHXX-J FE180/E30-E60 S OR	4 × 2.5 RE	3LPE	12,7	232	96	0,65	on request	312014
NHXX-J FE180/E30-E60 S OR	4 × 4 RE	3LPE	14,3	315	154	0,77	on request	312015
NHXX-J FE180/E30-E60 S OR	4 × 6 RE	3LPE	15,4	401	230	0,86	on request	312016
NHXX-J FE180/E30-E60 S OR	4 × 10 RE	3LPE	17,3	572	384	1,02	on request	312017
NHXX-J FE180/E30-E60 S OR	4 × 16 RM	3LPE	20,5	850	614	1,32	on request	312018
NHXX-J FE180/E30-E60 S OR	5 × 1.5 RE	3LNPE	12,9	223	72	0,69	on request	312021
NHXX-J FE180/E30-E60 S OR	5 × 2.5 RE	3LNPE	14,1	285	120	0,79	on request	312022
NHXX-J FE180/E30-E60 S OR	5 × 4 RE	3LNPE	15,6	384	192	0,92	on request	312023
NHXX-J FE180/E30-E60 S OR	5 × 6 RE	3LNPE	16,9	498	288	1,04	on request	312024
NHXX-J FE180/E30-E60 S OR	5 × 10 RE	3LNPE	18,9	705	480	1,23	on request	312025
NHXX-J FE180/E30-E60 S OR	5 × 16 RM	3LNPE	22,5	1054	768	1,60	on request	312026
NHXX-J FE180/E30-E60 S OR	7 × 1.5 RE	NRPE	14,1	276	101	0,82	on request	312027
NHXX-J FE180/E30-E60 S OR	7 × 2.5 RE	NRPE	15,4	355	168	0,94	on request	312028
NHXX-J FE180/E30-E60 S OR	12 × 1.5 RE	NRPE	17,8	455	187	1,30	on request	312029
NHXX-J FE180/E30-E60 S OR	12 × 2.5 RE	NRPE	19,5	562	288	1,41	on request	312030
NHXX-J FE180/E30-E60 S OR	19 × 1.5 RE	NRPE	21,9	700	288	2,00	on request	312031
NHXX-J FE180/E30-E60 S OR	19 × 2.5 RE	NRPE	24,0	885	456	2,22	on request	312032
NHXX-J FE180/E30-E60 S OR	24 × 1.5 RE	NRPE	23,9	788	346	2,19	on request	312033
NHXX-J FE180/E30-E60 S OR	30 × 1.5 RE	NRPE	25,3	934	432	2,55	on request	312034
NHXX-J FE180/E30-E60 S OR	30 × 2.5 RE	NRPE	27,9	1246	720	2,92	on request	312035