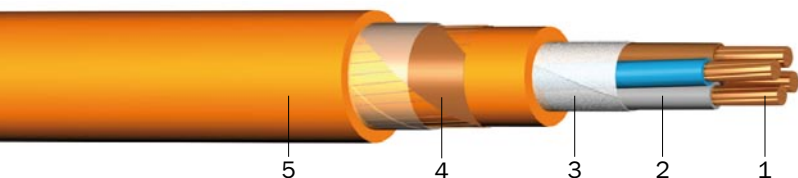


(N)HXCH FE180/E30

Halogen-free energy cable with insulation integrity FE180 and circuit integrity E30, screened

DESIGN



- 1 | Copper conductor, round solid (RE), resp. round stranded (RM)
- 2 | Core insulation (silicone rubber)
- 3 | Inner covering (halogen-free fabric tape and halogen-free polymer compound)
- 4 | Concentric screen (bare copper wires) and counter helix (copper tape) and halogen-free plastic tape
- 5 | Sheath (halogen-free polymer compound, orange)

APPLICATION

These cables are intended for the stationary distribution of electrical energy in dry or damp premises and for fixed installations in air or concrete. Suitable for hotels, hospitals, underground railways, airports etc. to protect people and technical building equipment in the event of fire if circuit integrity is required (circuit integrity is only maintained if these cables are installed with specified supporting elements). Not allowed for installations underground or in water. These cables are not UV-protected.

TECHNICAL DATA



Standard:
adapted to DIN VDE 0266



Rated voltage:
0.6/1 kV



Test voltage:
4 kV/50 Hz



Temperature range:
 laying temperature: min. -5 °C
 operating temperature: -50 °C up to +90 °C
 conductor temperature: max. +90 °C
 short-circuit temperature: max. +250 °C/5 s



Bending radius (min.):
12 x Ø of cable



Core identification:
HD 308 S2



Fire properties:
 flame retardant:
 EN 60332-1-2
 halogen-free, non-corrosive combustion gases:
 EN 50267-2-2
 reduced flame propagation:
 EN 60332-3-24
 low smoke emission:
 EN 61034-2
 insulation integrity FE180:
 IEC 60331-21, DIN VDE 0472-814
 circuit integrity E30:
 DIN 4102-12



Certificate:
EZÚ Czech Republic, VDE Germany

Number of cores x nominal cross section/cross section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air ¹⁾ (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
(N)HXCH FE180/E30					
2 x 1.5 RE/1.5	12.100	29	11.6	185	1,000 D
3 x 1.5 RE/1.5	12.100	24	12.1	205	1,000 D
4 x 1.5 RE/1.5	12.100	24	13.0	235	1,000 D
5 x 1.5 RE/1.5	12.100	24	13.8	265	1,000 D
7 x 1.5 RE/2.5	12.100	14	14.7	330	1,000 D
10 x 1.5 RE/2.5	12.100	13	17.5	425	500 D

(N)HXCH FE180/E30

Number of cores x nominal cross section/cross section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air ¹⁾ (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
(N)HXCH FE180/E30					
12 x 1.5 RE/2.5	12.100	12	18.2	475	500 D
14 x 1.5 RE/2.5	12.100	11	18.9	525	500 D
19 x 1.5 RE/4	12.100	11	21.2	660	500 D
24 x 1.5 RE/6	12.100	10	24.5	835	500 D
30 x 1.5 RE/6	12.100	9	25.7	970	500 D
40 x 1.5 RE/10	12.100	8	28.4	1,245	500 D
2 x 2.5 RE/2.5	7.410	38	12.4	230	1,000 D
3 x 2.5 RE/2.5	7.410	32	13.1	265	1,000 D
4 x 2.5 RE/2.5	7.410	32	14.0	305	1,000 D
5 x 2.5 RE/2.5	7.410	32	14.9	345	1,000 D
7 x 2.5 RE/2.5	7.410	20	15.9	415	1,000 D
10 x 2.5 RE/4	7.410	18	19.9	575	500 D
12 x 2.5 RE/4	7.410	17	20.4	635	500 D
14 x 2.5 RE/6	7.410	16	21.3	705	500 D
19 x 2.5 RE/6	7.410	16	23.4	910	500 D
24 x 2.5 RE/10	7.410	13	27.2	1,155	500 D
30 x 2.5 RE/10	7.410	12	28.8	1,365	500 D
40 x 2.5 RE/10	7.410	11	31.4	1,710	500 D
2 x 4 RE/4	4.610	51	14.7	315	1,000 D
3 x 4 RE/4	4.610	42	15.4	365	1,000 D
4 x 4 RE/4	4.610	42	16.4	420	1,000 D
5 x 4 RE/4	4.610	42	17.6	485	1,000 D
7 x 4 RE/4	4.610	28	19.0	600	500 D
10 x 4 RE/6	4.610	25	23.2	820	500 D
12 x 4 RE/6	4.610	23	23.8	920	500 D
14 x 4 RE/6	4.610	22	24.9	1,030	500 D
19 x 4 RE/10	4.610	22	27.8	1,350	500 D
2 x 6 RE/6	3.080	64	15.7	395	500 D
3 x 6 RE/6	3.080	53	16.4	460	500 D
4 x 6 RE/6	3.080	53	17.8	550	500 D
5 x 6 RE/6	3.080	53	19.1	630	500 D
2 x 10 RE/10	1.830	86	17.9	555	500 D
3 x 10 RE/10	1.830	74	18.7	655	500 D
4 x 10 RE/10	1.830	74	20.1	770	500 D
5 x 10 RE/10	1.830	74	21.6	905	500 D
2 x 16 RM/16	1.150	110	20.1	775	500 D
3 x 16 RM/16	1.150	98	21.1	930	500 D
4 x 16 RM/16	1.150	98	22.8	1,110	500 D
5 x 16 RM/16	1.150	98	24.8	1,320	500 D
3 x 25 RM/16	0.727	133	27.4	1,410	500 D

(N)HXCH FE180/E30

Number of cores x nominal cross section/cross section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air ¹⁾ (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
(N)HXCH FE180/E30					
4 x 25 RM/16	0.727	133	29.0	1,655	500 D
5 x 25 RM/16	0.727	133	31.7	1,995	500 D
3 x 35 RM/16	0.524	162	28.6	1,600	500 D
4 x 35 RM/16	0.524	162	31.1	1,980	500 D
5 x 35 RM/16	0.524	162	34.2	2,420	500 D
3 x 50 RM/25	0.387	197	32.4	2,155	500 D
4 x 50 RM/25	0.387	197	35.7	2,700	500 D
5 x 50 RM/25	0.387	197	39.1	3,285	500 D
3 x 70 RM/35	0.268	250	37.5	2,930	500 D
4 x 70 RM/35	0.268	250	41.0	3,650	500 D
5 x 70 RM/35	0.268	250	45.1	4,475	500 D
3 x 95 RM/50	0.193	308	42.5	3,895	500 D
4 x 95 RM/50	0.193	308	46.6	4,850	500 D
5 x 95 RM/50	0.193	308	51.3	5,950	500 D
3 x 120 RM/70	0.153	359	45.8	4,870	500 D
4 x 120 RM/70	0.153	359	50.5	6,105	500 D
5 x 120 RM/70	0.153	359	55.6	7,450	500 D
3 x 150 RM/70	0.124	412	50.3	5,845	300 D
4 x 150 RM/70	0.124	412	55.4	7,345	300 D
5 x 150 RM/70	0.124	412	61.7	9,010	300 D

1) basic rated current acc. to DIN VDE 0266
Subject to technical changes.