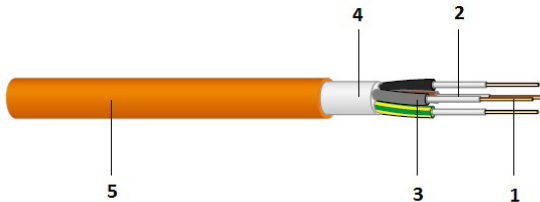


(N)HXH FE180 E30-E60

Safety cable, 0.6/1kV, Keram

Halogen-free, with improved fire characteristics;
with reference to VDE 0266 and CENELEC HD 604 S1,
circuit integrity (FE180) in accordance with VDE 0472-814, IEC 60331,
System Circuit Integrity E30-E60* in accordance with DIN 4102-12



- 1 Conductor: solid/stranded
- 2 Fire barrier: high-performance Keram compound
- 3 Insulation: cross-linked polymer, zero halogen
- 4 Filler: flame retardant, zero halogen
- 5 Sheath: FRNC/LSZH



Description

Safety cables are installed in all areas that require special protection of people and equipment against fire and fire damages and where strict security requirements must be fulfilled.

Suitable for indoor applications. For outdoor applications, protection must be provided against exposure to direct sunlight. The cable should only be laid directly in earth or water if a protective conduit is used.

System Circuit Integrity is provided up to 400 V operating voltage.

Permitted operating temperature at conductor of +90°C.

Costruzione

Colori delle anime	CENELEC HD 308 S2, VDE 0293
Conduttore	Bare copper, solid or stranded, IEC 60228 and EN 60228 (VDE 0295)
Isolamento	Double insulation, cross-linked, high-performance Keram special compound, VDE 0266 "HX11"
Outer sheath colour	arancia
Outer sheath material	Flame retardant Polyolefin compound, CENELEC HD 604 S1 and VDE 0276-604 "HM4"
Riempitrice	Flame retardant, halogen-free thermoplastic compound

Proprietà generali

Installation temperature	-5 °C - +50 °C
Integrità del circuito	E60
Integrità dell'isolamento	FE 180
Operating temperature	-45 °C - +90 °C

Proprietà elettriche

Nominal voltage	0.6/1kV
Test voltage 50Hz	4.000 V

Proprietà meccaniche

Curvatura minima durante l'installazione (anima singola)	15 x D
Curvatura minima durante l'installazione (multicore)	12 x D
Minimum bending radius permanent (multi core)	12 x D
Minimum bending radius permanent (single core)	15 x D
Remarks bending radius	50% reduction if installation at 30°C and with a template

Standards

Integrità del circuito (FE180)	IEC 60331-11/-21 (180 minutes),VDE 0472-814 (FE180),BS 6387 C/W/Z,IEC 60331-1 (120 minutes),IEC 60331-2 (120 minutes),EN 50200 (PH120 minutes),NBN 713-020 (Rf1),VDE 0482-200 (PH120),VDE 0482-362,AREI-RGIE Art.104-FR1
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Flame Propagation	AREI-RGIE Art.104-F1, EN 60332-1-2, IEC 60332-1-2, SEV TP 20B/3C 3.4.1.1, VDE 0482-332-1-2
Flame Spread	IEC 60332-3-24 Cat. C, EN 60332-3-24 Cat. C, VDE 0482-332-3-24 Cat. C, SEV TP 20B/3C 3.4.1.3, AREI-RGIE Art.104-F2
Integrità del circuito di sistema	DIN 4102-12, AREI-RGIE Art.104-FR2, NBN 713-020 (Rf1)
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD

Nota

* System Circuit Integrity is dependent on installation method

Versions

Numero Materiale	Product	Outer sheath colour	Numero di core	Diametro mm ²	Diametro esterno della guaina [mm]	Tasso di CU [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Conductor	Construction	Packing unit
171290	(N)HXH-0 FE180 E30-E60 1 x 6	arancia	1	6	7,6	58,6	113	0,23	solid	L	al metro
171291	(N)HXH-0 FE180 E30-E60 1 x 10	arancia	1	10	8,4	96	158	0,27	solid	L	al metro
171370	(N)HXH-0 FE180 E30-E60 1 x 16	arancia	1	16	9,8	154	227	0,34	stranded	L	al metro
171377	(N)HXH-0 FE180 E30-E60 1 x 25	arancia	1	25	11,3	240	329	0,43	stranded	L	al metro
171386	(N)HXH-0 FE180 E30-E60 1 x 35	arancia	1	35	12,4	336	428	0,48	stranded	L	al metro
171394	(N)HXH-0 FE180 E30-E60 1 x 50	arancia	1	50	13,9	480	565	0,58	stranded	L	al metro
171429	(N)HXH-0 FE180 E30-E60 1 x 70	arancia	1	70	15,7	672	773	0,68	stranded	L	al metro
170842	(N)HXH-0 FE180 E30-E60 1 x 95	arancia	1	95	18,1	912	1.035	0,91	stranded	L	al metro
170845	(N)HXH-0 FE180 E30-E60 1 x 120	arancia	1	120	19,2	1.152	1.270	0,97	stranded	L	al metro
170850	(N)HXH FE180 E30-E60 1 x 150	arancia	1	150	21,4	1.440	1.590	1,20	stranded	L	al metro
170855	(N)HXH-0 FE180 E30-E60 1 x 185	arancia	1	185	23,6	1.776	1.961	1,46	stranded	L	al metro
170858	(N)HXH-0 FE180 E30-E60 1 x 240	arancia	1	240	26,8	2.304	2.563	1,81	stranded	L	al metro
170860	(N)HXH FE180 E30-E60 1x300	arancia	1	300	29,2	2.880	3.051	2,13	stranded	L	al metro



Numero Materiale	Product	Outer sheath colour	Numero di core	Diametro mm ²	Diametro esterno della guaina [mm]	Tasso di CU [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Conductor	Construction	Packing unit
186280	(N)HXH FE180 E30-E60 2 x 1.5	arancia	2	1.5	11	29	178	0,48	solid	LN	al metro
186921	(N)HXH FE180 E30-E60 2 x 2.5	arancia	2	2.5	11,8	48	216	0,54	solid	LN	al metro
186922	(N)HXH FE180 E30-E60 2 x 4	arancia	2	4	12,8	77	271	0,62	solid	LN	al metro
186923	(N)HXH FE180 E30-E60 2 x 6	arancia	2	6	13,8	115	337	0,70	solid	LN	al metro
186924	(N)HXH FE180 E30-E60 2 x 10	arancia	2	10	15,4	192	459	0,83	solid	LN	al metro
186952	(N)HXH FE180 E30-E60 2 x 16	arancia	2	16	18,2	307	660	1,09	solid	LN	al metro
190404	(N)HXH FE180 E30-E60 2 x 25	arancia	2	25	21,2	480	950	1,42	stranded	LN	al metro
18692500ZZ	(N)HXH-J FE180 E30-E60 3 x 1.5	arancia	3	1.5	11,5	43	199	0,53	solid	LNPE	al metro
18692500ZL	(N)HXH-J FE180 E30-E60 3 x 1.5	arancia	3	1.5	11,5	43	200	0,53	solid	LNPE	500 m tamburo
18692500ZK	(N)HXH-J FE180 E30-E60 3 x 1.5	arancia	3	1.5	11,5	43	200	0,53	solid	LNPE	1000 m tamburo
18692600ZZ	(N)HXH-J FE180 E30-E60 3 x 2.5	arancia	3	2.5	12,4	72	248	0,60	solid	LNPE	al metro
18692600ZL	(N)HXH-J FE180 E30-E60 3 x 2.5	arancia	3	2.5	12,4	72	250	0,60	solid	LNPE	500 m tamburo
18692600ZK	(N)HXH-J FE180 E30-E60 3 x 2.5	arancia	3	2.5	12,4	72	250	0,60	solid	LNPE	1000 m tamburo
186927	(N)HXH-J FE180 E30-E60 3 x 4	arancia	3	4	13,5	115	319	0,68	solid	LNPE	al metro
186928	(N)HXH-J FE180 E30-E60 3 x 6	arancia	3	6	14,6	173	403	0,77	solid	LNPE	al metro
186929	(N)HXH-J FE180 E30-E60 3 x 10	arancia	3	10	16,3	288	560	0,91	solid	LNPE	al metro
186953	(N)HXH FE180 E30-E60 3 x 16	arancia	3	16	19,3	461	809	1,19	stranded	LNPE	al metro
186955	(N)HXH FE180 E30-E60 3 x 25	arancia	3	25	22,6	720	1.182	1,56	stranded	LNPE	al metro
186954	(N)HXH FE180 E30-E60 3 x 25 + 1 x 16	arancia	3	25+16	23,9	874	1.357	1,73	stranded	3LPE	al metro
186957	(N)HXH FE180 E30-E60 3 x 35	arancia	3	35	24,9	1.008	1.529	1,80	stranded	LNPE	al metro
186956	(N)HXH FE180 E30-E60 3 x 35 + 1 x 16	arancia	3	35+16	25,9	1.162	1.693	1,93	stranded	3LPE	al metro
186959	(N)HXH FE180 E30-E60 3 x 50	arancia	3	50	28,2	1.440	2.026	2,24	stranded	LNPE	al metro
186958	(N)HXH FE180 E30-E60 3 x 50 + 1 x 25	arancia	3	50+25	29,9	1.680	2.311	2,52	stranded	3LPE	al metro
186961	(N)HXH FE180 E30-E60 3 x 70	arancia	3	70	32,7	2.016	2.814	3,27	stranded	LNPE	al metro
186960	(N)HXH FE180 E30-E60 3 x 70 + 1 x 35	arancia	3	70+35	34	2.352	3.146	3,07	stranded	3LPE	al metro
186962	(N)HXH FE180 E30-E60 3 x 95 + 1 x 20	arancia	3	95+50	39,3	3.216	4.222	4,18	stranded	3LPE	al metro
186963	(N)HXH FE180 E30-E60 3 x 120 + 1 x 70	arancia	3	120+70	42,6	4.098,28	5.255	4,74	stranded	3LPE	al metro
186964	(N)HXH FE180 E30-E60 3 x 150 + 1 x 70	arancia	3	150+70	46,6	4.992	6.361	5,63	stranded	3LPE	al metro



Numero Materiale	Product	Outer sheath colour	Numero di core	Diametro mm ²	Diametro esterno della guaina [mm]	Tasso di CU [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Conductor	Construction	Packing unit
186965	(N)HXH FE180 E30-E60 3 x 185 + 1 x 90	arancia	3	185+95	52	6.240	7.954	6,99	stranded	3LPE	al metro
186930	(N)HXH-J FE180 E30-E60 4 x 1.5	arancia	4	1.5	12,4	58	233	0,61	solid	3LPE	al metro
186931	(N)HXH-J FE180 E30-E60 4 x 2.5	arancia	4	2.5	13,4	96	290	0,69	solid	3LPE	al metro
186932	(N)HXH-J FE180 E30-E60 4 x 4	arancia	4	4	14,6	154	381	0,78	solid	3LPE	al metro
186933	(N)HXH-J FE180 E30-E60 4 x 6	arancia	4	6	15,8	230	492	0,90	solid	3LPE	al metro
186934	(N)HXH-J FE180 E30-E60 4 x 10	arancia	4	10	17,8	384	695	1,07	solid	3LPE	al metro
186967	(N)HXH FE180 E30-E60 4 x 16	arancia	4	16	21,1	614	1.005	1,40	stranded	3LPE	al metro
186968	(N)HXH FE180 E30-E60 4 x 25	arancia	4	25	24,8	960	1.479	1,86	stranded	3LPE	al metro
186969	(N)HXH FE180 E30-E60 4 x 35	arancia	4	35	27,4	1.344	1.929	2,15	stranded	3LPE	al metro
186970	(N)HXH FE180 E30-E60 4 x 50	arancia	4	50	31,5	1.920	2.598	2,79	stranded	3LPE	al metro
186971	(N)HXH FE180 E30-E60 4 x 70	arancia	4	70	36,2	2.688	3.578	3,38	stranded	3LPE	al metro
186972	(N)HXH FE180 E30-E60 4 x 95	arancia	4	95	41,7	3.648	4.785	4,68	stranded	3LPE	al metro
186973	(N)HXH FE180 E30-E60 4 x 120	arancia	4	120	44,6	4.608	5.837	5,19	stranded	3LPE	al metro
186974	(N)HXH FE180 E30-E60 4 x 150	arancia	4	150	50	5.760	7.361	6,52	stranded	3LPE	al metro
187548	(N)HXH-J FE180 E30-E60 4 x 185	arancia	4	185	55,3	7.104	9.066	7,98	stranded	3LPE	al metro
187077	(N)HXH FE180 E30-E60 4 x 240	arancia	4	240	62,9	9.216	11.863	10,05	stranded	3LPE	al metro
186935	(N)HXH-J FE180 E30-E60 5 x 1.5	arancia	5	1.5	13,4	72	276	0,71	solid	3LNPE	al metro
186936	(N)HXH-J FE180 E30-E60 5 x 2.5	arancia	5	2.5	14,5	120	346	0,81	solid	3LNPE	al metro
186937	(N)HXH-J FE180 E30-E60 5 x 4	arancia	5	4	15,8	192	457	0,93	solid	3LNPE	al metro
186938	(N)HXH-J FE180 E30-E60 5 x 6	arancia	5	6	17,2	288	589	1,05	solid	3LNPE	al metro
186939	(N)HXH-J FE180 E30-E60 5 x 10	arancia	5	10	19,3	480	833	1,25	solid	3LNPE	al metro
186975	(N)HXH FE180 E30-E60 5 x 16	arancia	5	16	23,1	768	1.220	1,67	stranded	3LNPE	al metro
186976	(N)HXH FE180 E30-E60 5 x 25	arancia	5	25	27,2	1.200	1.803	2,22	stranded	3LNPE	al metro
186977	(N)HXH FE180 E30-E60 5 x 35	arancia	5	35	30,5	1.680	2.385	2,66	stranded	3LNPE	al metro
186978	(N)HXH FE180 E30-E60 5 x 50	arancia	5	50	34,8	2.400	3.191	3,41	stranded	3LNPE	al metro
186979	(N)HXH FE180 E30-E60 5 x 70	arancia	5	70	40	3.360	4.391	4,26	stranded	3LNPE	al metro
190587	(N)HXH FE180 E30-E60 5 x 95	arancia	5	95	46,6	4.560	5.925	5,89	stranded	3LNPE	al metro
196283	(N)HXH FE180 E30-E60 6x10	arancia	6	10	21	576	983	1.434	solid	5LPE	al metro
171272	(N)HXH-J FE180 E30-E60 7 x 1.5	arancia	7	1.5	14,4	101	329	0,81	solid	6LPE	al metro



Numero Materiale	Product	Outer sheath colour	Numero di core	Diametro mm ²	Diametro esterno della guaina [mm]	Tasso di CU [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Conductor	Construction	Packing unit
171273	(N)HXH-J FE180 E30-E60 7 x 2.5	arancia	7	2.5	15,6	168	419	0,92	solid	6LPE	al metro
191080	(N)HXH-J FE180 E30-E60 7 x 6	arancia	7	6	18,6	403	730	1,17	solid	5LNPE	al metro
171279	(N)HXH-J FE180 E30-E60 12 x 1.5	arancia	12	1.5	18,3	173	513	1,20	solid	11LPE	al metro
171280	(N)HXH-J FE180 E30-E60 12 x 2.5	arancia	12	2.5	20	288	671	1,37	solid	11LPE	al metro
171283	(N)HXH-J FE180 E30-E60 19 x 1.5	arancia	19	1.5	21,2	274	715	1,63	solid	18LPE	al metro
171284	(N)HXH-J FE180 E30-E60 19 x 2.5	arancia	19	2.5	23,2	456	947	1,83	solid	18LPE	al metro
171285	(N)HXH-J FE180 E30-E60 24 x 1.5	arancia	24	1.5	24,6	346	901	1,99	solid	23LPE	al metro
171286	(N)HXH-J FE180 E30-E60 24 x 2.5	arancia	24	2.5	27	576	1.199	2,27	solid	23LPE	al metro
171287	(N)HXH-J FE180 E30-E60 30 x 1.5	arancia	30	1.5	26	432	1.052	2,28	solid	29LPE	al metro
171288	(N)HXH-J FE180 E30-E60 30 x 2.5	arancia	30	2.5	28,8	720	1.430	2,68	solid	29LPE	al metro

Con riserva di modifiche tecniche

A partire da 2021-03-22 12:08:54