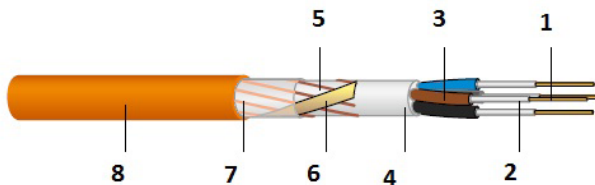


(N)HXCH FE180 E90 B2_{ca}

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 E90 in accordance with DIN 4102-12
Reaction to fire according to EN 13501-6



- 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 Concentric conductor: bare copper wire
- 6 Reinforcing helix: bare copper tape
- 7 Separator: plastic tape
- 8 Sheath: FRNC/LSZH



Description

Cables with intrinsic fire resistance 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. These cables correspond to the demands of System Circuit Integrity E90* in accordance with DIN 4102-12. System Circuit Integrity is guaranteed at an operating voltage up to 400V. Permitted operating temperature at conductor of +90°C.

Applicazione

For use in critical fire safety infrastructure (in compliance with VKF, ASTRA, Tunnels Directive, etc.), particularly in escape routes and emergency lines.

Costruzione

Colori delle anime	CENELEC HD 308 S2, VDE 0293
Conduttore	Bare copper, solid or stranded, IEC 60228 and EN 60228 (VDE 0295)
Conduttore concentrico	Bare copper wires with reinforced helix
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	Halogen-free compound or plastic tape
Separator	Plastic tape

Proprietà generali

Installation temperature	-5 °C - +50 °C
Integrità del circuito	E90
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 (multicore)	12 x D
Minimum bending radius permanent (multi core)	12 x D

Standards

Integrità del circuito (FE180)	IEC 60331-11/-21 (180 minutes),VDE 0472-814 (FE180),IEC 60331-1 (120 minutes),IEC 60331-2 (120 minutes),EN 50200 (PH120 minutes),VDE 0482-200 (PH120),VDE 0482-362,AREI-RGIE Art.104-FR1
Reaction to fire (Euroclasses)	EN 13501-6: B2 _{ca}
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, VDE 0482-332-1-2
Flame Spread	IEC 60332-3-22/-24 Cat. A/C, EN 60332-3-22/-24 Cat. A/C, VDE 0482-332-3-22/-24 Cat. A/C, AREI-RGIE Art.104-F2
Integrità del circuito di sistema	DIN 4102-12, VdS 3423 (più di 16,0 mm ²), AREI-RGIE Art.104-FR2
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	Reaction To Fire	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
18607100BZ	(N)HXCH FE180 E90 3 x 1.5/1.5	B2ca- s1a,d1,a1	arancia	3	1.5/1.5	13,2	66	248	0,599	solid	3L	al metro
18619500BZ	(N)HXCH FE180 E90 3 x 2.5/2.5	B2ca- s1a,d1,a1	arancia	3	2.5/2.5	14,1	104	305	0,784	solid	3L	al metro
18619700BZ	(N)HXCH FE180 E90 3 x 4/4	B2ca- s1a,d1,a1	arancia	3	4/4	15,6	161	401	0,771	solid	3L	al metro
18727800BZ	(N)HXCH FE180 E90 3 x 6/6	B2ca- s1a,d1,a1	arancia	3	6/6	16,9	240	525	0,921	solid	3L	al metro
17241700BZ	(N)HXCH FE180 E90 3 x 35/16	B2ca- s1a,d1,a1	arancia	3	35/16	29	1.190	1.944	2,267	stranded	3L	al metro
18740800BZ	(N)HXCH FE180 E90 3 x 50/25	B2ca- s1a,d1,a1	arancia	3	50/25	32,5	1.723	2.549	2,729	stranded	3L	al metro
18740900BZ	(N)HXCH FE180 E90 3 x 70/35	B2ca- s1a,d1,a1	arancia	3	70/35	37,6	2.410	3.540	3,542	stranded	3L	al metro

Numero Materiale	Product	Reaction To Fire	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
18741000BZ	(N)HXCH FE180 E90 3 x 95/50	B2ca- s1a,d1,a1	arancia	3	95/50	41,9	3.296	4.604	4,285	stranded	3L	al metro
18741100BZ	(N)HXCH FE180 E90 3 x 120/70	B2ca- s1a,d1,a1	arancia	3	120/70	45,3	4.236	5.694	5,112	stranded	3L	al metro
18741200BZ	(N)HXCH FE180 E90 3 x 150/70	B2ca- s1a,d1,a1	arancia	3	150/70	50	5.100	6.919	5,889	stranded	3L	al metro
18607200BZ	(N)HXCH FE180 E90 4 x 1.5/1.5	B2ca- s1a,d1,a1	arancia	4	1.5/1.5	14,1	81	283	0,677	solid	3LN	al metro
18619600BZ	(N)HXCH FE180 E90 4 x 2.5/2.5	B2ca- s1a,d1,a1	arancia	4	2.5/2.5	15,1	128	351	0,754	solid	3LN	al metro
18619800BZ	(N)HXCH FE180 E90 4 x 4/4	B2ca- s1a,d1,a1	arancia	4	4/4	16,7	200	466	0,87	solid	3LN	al metro
18619900BZ	(N)HXCH FE180 E90 4 x 6/6	B2ca- s1a,d1,a1	arancia	4	6/6	18,1	297	618	1,051	solid	3LN	al metro
18620000BZ	(N)HXCH FE180 E90 4 x 10/10	B2ca- s1a,d1,a1	arancia	4	10/10	20,1	504	867	1,25	solid	3LN	al metro
18613100BZ	(N)HXCH FE180 E90 4 x 16/16	B2ca- s1a,d1,a1	arancia	4	16/16	25,3	796	1.399	1,772	stranded	3LN	al metro
18613200BZ	(N)HXCH FE180 E90 4 x 25/16	B2ca- s1a,d1,a1	arancia	4	25/16	28,9	1.142	1.899	2,568	stranded	3LN	al metro
18613300BZ	(N)HXCH FE180 E90 4 x 35/16	B2ca- s1a,d1,a1	arancia	4	35/16	31,6	1.526	2.382	2,568	stranded	3LN	al metro
18613400BZ	(N)HXCH FE180 E90 4 x 50/25	B2ca- s1a,d1,a1	arancia	4	50/25	36,7	2.203	3.249	3,374	stranded	3LN	al metro
18613500BZ	(N)HXCH FE180 E90 4 x 70/35	B2ca- s1a,d1,a1	arancia	4	70/35	41,3	3.082	4.376	4,08	stranded	3LN	al metro
18613600BZ	(N)HXCH FE180 E90 4 x 95/50	B2ca- s1a,d1,a1	arancia	4	95/50	46,4	4.208	5.737	5,179	stranded	3LN	al metro
18613700BZ	(N)HXCH FE180 E90 4 x 120/70	B2ca- s1a,d1,a1	arancia	4	120/70	50,1	5.388	7.085	5,858	stranded	3LN	al metro
18613800BZ	(N)HXCH FE180 E90 4 x 150/70	B2ca- s1a,d1,a1	arancia	4	150/70	55,3	6.540	8.640	7,11	stranded	3LN	al metro
18613900BZ	(N)HXCH FE180 E90 4 x 185/95	B2ca- s1a,d1,a1	arancia	4	185/95	60,8	8.159	10.737	8,61	stranded	3LN	al metro
18614000BZ	(N)HXCH FE180 E90 4 x 240/120	B2ca- s1a,d1,a1	arancia	4	240/120	69,2	10.546	13.961	10,885	stranded	3LN	al metro

Additional dimensions available on request.

Con riserva di modifiche tecniche

A partire da 2021-07-05 08:28:43