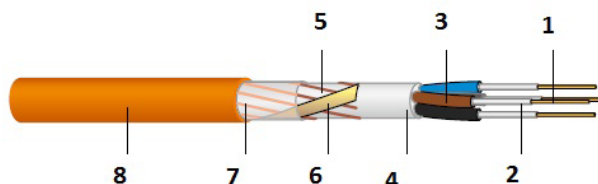


(N)HXCH FE180 E90 B2_{ca}

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



Descrizione

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.

Suitable according to VKF fire protection guideline in escape routes and in tunnels according to Astra guideline 13022.

Applicazione

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

Costruzione

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"
Colori delle anime	CENELEC HD 308 S2, VDE 0293
Separator	Plastic tape
Riempitrice	Halogen-free compound or plastic tape
Conduttore concentrico	Bare copper wires with reinforced helix
Materiale della guaina esterna	Flame retardant Polyolefin compound, CENELEC HD 604 S1 and VDE 0276-604 "HM4"
Colore della guaina esterna	arancia

Proprietà generali

Integrità del circuito	E90
Integrità dell'isolamento	FE 180
Installation temperature	-5 °C - +50 °C
Operating temperature	-45 °C - +90 °C

Proprietà elettriche

Nominal voltage	0.6/1kV
Tensione di prova a 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), AREI-RGIE Art.104-FR1
Integrità del circuito di sistema	DIN 4102-12, VdS 3423 (più di 16,0 mm ²), AREI-RGIE Art.104-FR2
Reaction to fire (Euroclasses)	EN 13501-6: B2 _{ca} , EN 50399
Densità del fumo	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
Zero alogeni nessun gas corrosivo	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Propagazione della fiamma	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, EN 60332-3-22/-24, VDE 0482-332-3-22/-24, AREI-RGIE Art.104-F2

Nota

System Circuit Integrity is dependent on installation method.

Versioni

Codice art.	Prodotto	Reaction to fire	Colore della guaina esterna	Diametro esterno della guaina [mm]	Tasso di CU [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Conductor	Construction	Unità di imballaggio	GTIN / EAN
18607100BZ	(N)HXCH FE180 E90 3 x 1.5/1.5	B2ca-s1a,d1,a1	arancia	13,2	66	246	0,599	solid	3L	al metro	
18619500BZ	(N)HXCH FE180 E90 3 x 2.5/2.5	B2ca-s1a,d1,a1	arancia	14,1	104	303	0,784	solid	3L	al metro	
18619700BZ	(N)HXCH FE180 E90 3 x 4/4	B2ca-s1a,d1,a1	arancia	15,6	161	400	0,771	solid	3L	al metro	
18727800BZ	(N)HXCH FE180 E90 3 x 6/6	B2ca-s1a,d1,a1	arancia	16,9	240	521	0,921	solid	3L	al metro	
17241700BZ	(N)HXCH FE180 E90 3 x 35/16	B2ca-s1a,d1,a1	arancia	29	1.190	1.941	2,267	stranded	3L	al metro	
18740800BZ	(N)HXCH FE180 E90 3 x 50/25	B2ca-s1a,d1,a1	arancia	32,5	1.723	2.545	2,729	stranded	3L	al metro	
18740900BZ	(N)HXCH FE180 E90 3 x 70/35	B2ca-s1a,d1,a1	arancia	37,6	2.410	3.536	3,542	stranded	3L	al metro	
18741000BZ	(N)HXCH FE180 E90 3 x 95/50	B2ca-s1a,d1,a1	arancia	41,9	3.296	4.598	4,285	stranded	3L	al metro	
18741100BZ	(N)HXCH FE180 E90 3 x 120/70	B2ca-s1a,d1,a1	arancia	45,3	4.236	5.688	5,112	stranded	3L	al metro	
18741200BZ	(N)HXCH FE180 E90 3 x 150/70	B2ca-s1a,d1,a1	arancia	50	5.100	6.911	5,889	stranded	3L	al metro	

Codice art.	Prodotto	Reaction to fire	Colore della guaina esterna	Diametro esterno della guaina [mm]	Tasso di CU [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Conductor	Construction	Unità di imballaggio	GTIN / EAN
18607200BZ	(N)HXCH FE180 E90 4 x 1.5/1.5	B2ca-s1a,d1,a1	arancia	14,1	81	280	0,677	solid	3LN	al metro	
18619600BZ	(N)HXCH FE180 E90 4 x 2.5/2.5	B2ca-s1a,d1,a1	arancia	15,1	128	350	0,754	solid	3LN	al metro	
18619800BZ	(N)HXCH FE180 E90 4 x 4/4	B2ca-s1a,d1,a1	arancia	16,7	200	464	0,87	solid	3LN	al metro	
18619900BZ	(N)HXCH FE180 E90 4 x 6/6	B2ca-s1a,d1,a1	arancia	18,1	297	612	1,051	solid	3LN	al metro	
18620000BZ	(N)HXCH FE180 E90 4 x 10/10	B2ca-s1a,d1,a1	arancia	20,1	504	858	1,25	solid	3LN	al metro	
18613100BZ	(N)HXCH FE180 E90 4 x 16/16	B2ca-s1a,d1,a1	arancia	25,3	796	1.396	1,772	stranded	3LN	al metro	
18613200BZ	(N)HXCH FE180 E90 4 x 25/16	B2ca-s1a,d1,a1	arancia	28,9	1.142	1.895	2,568	stranded	3LN	al metro	
18613300BZ	(N)HXCH FE180 E90 4 x 35/16	B2ca-s1a,d1,a1	arancia	31,6	1.526	2.378	2,568	stranded	3LN	al metro	
18613400BZ	(N)HXCH FE180 E90 4 x 50/25	B2ca-s1a,d1,a1	arancia	36,7	2.203	3.245	3,374	stranded	3LN	al metro	
18613500BZ	(N)HXCH FE180 E90 4 x 70/35	B2ca-s1a,d1,a1	arancia	41,3	3.082	4.371	4,08	stranded	3LN	al metro	
18613600BZ	(N)HXCH FE180 E90 4 x 95/50	B2ca-s1a,d1,a1	arancia	46,4	4.208	5.731	5,179	stranded	3LN	al metro	
18613700BZ	(N)HXCH FE180 E90 4 x 120/70	B2ca-s1a,d1,a1	arancia	50,1	5.388	7.078	5,858	stranded	3LN	al metro	
18613800BZ	(N)HXCH FE180 E90 4 x 150/70	B2ca-s1a,d1,a1	arancia	55,3	6.540	8.631	7,11	stranded	3LN	al metro	
18613900BZ	(N)HXCH FE180 E90 4 x 185/95	B2ca-s1a,d1,a1	arancia	60,8	8.159	10.727	8,61	stranded	3LN	al metro	
18614000BZ	(N)HXCH FE180 E90 4 x 240/120	B2ca-s1a,d1,a1	arancia	69,2	10.546	13.949	10,885	stranded	3LN	al metro	
18607302BZ	(N)HXCH FE180 E90 7 x 1.5/2.5	B2ca-s1b,d1,a1	arancia	16,1	133	390	0,884	solid	7L	al metro	
19109602BZ	(N)HXCH FE180 E90 7 x 2.5/2.5	B2ca-s1b,d1,a1	arancia	17,3	200	484	0,994	solid	7L	al metro	
18741502BZ	(N)HXCH FE180 E90 12 x 1.5/2.5	B2ca-s1b,d1,a1	arancia	20,2	205,8	589	1,308	solid	12L	al metro	

Additional dimensions available on request.

Con riserva di modifiche tecniche

A partire da 2023-10-30 08:22:38