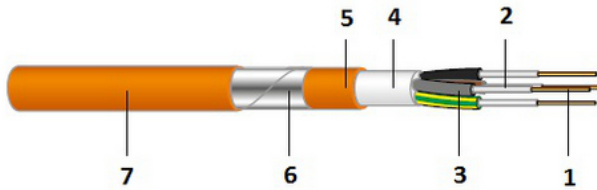


FE180 E30 CL

Safety cable, 0.6/1kV, armoured with rodent protection, Keram halogen-free, with improved fire characteristics, with reference to SEV TP 20B/3C and CENELEC HD 604 S1 part 5.H



- 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 **Inner Sheath:** Polyolefin flame retardant, low smoke, zero halogen
- 6 **Armouring:** galvanised steel tape
- 7 **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.
Permitted operating temperature at conductor of +90°C.

CONSTRUCTION

Conductor:	Bare copper, solid or stranded, IEC 60228 and EN 60228 ($\geq 16 \text{ mm}^2$: VDE 0295)
Conductor insulation:	Special compound, HD 604 S1 part 5 H ($\geq 16 \text{ mm}^2$: double-layer insulation, special compound, VDE 0266 "HX11")
Filler:	HD 604 S1 part 5 H ($\geq 16 \text{ mm}^2$: halogen-free polyolefin compound)
Inner sheath:	Compound, HD 604 S1 part 5 H ($\geq 16 \text{ mm}^2$: Polyolefin compound, VDE 0276-604, CENELEC HD 604 S1 "HM 4", flame-retardant)
Armouring (rodent protection):	Single-core cable with copper tape (CLCU), multicore cable with galvanised steel tape (CL)
Outer Sheath:	Compound, HD 604 S1 part 5 H ($\geq 16 \text{ mm}^2$: in accordance with CENELEC HD 308 S2 and VDE 0293)
Core Colours:	CENELEC HD 308 S2
Sheath colour:	orange

PROPRIÉTÉS ÉLECTRIQUES

Nominal voltage:	0.6/1kV
Test voltage:	3500V, 50Hz

PROPRIÉTÉS MÉCANIQUES

Minimum bending radius	during and permanent installation:	15 x D (single core cable) 12 x D (multicore cable) (D = outer diameter)
Operating temperature	permanent installation: during installation:	-45°C to +90°C -5°C to +50°C

REMARQUE

* System Circuit Integrity is dependent on installation method

NORMES

Zéro halogène, pas de gaz corrosifs	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, SEV TPV11, AREI-RGIE Art.104-SA
Autoextinguible	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, SEV TP 20B/3C 3.4.1.1, AREI-RGIE Art.104-F1
Non propagateur de l'incendie	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
Densité de fumée	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, SEV TP 20B/3C 3.4.3, AREI-RGIE Art.104-SD
Maintien de l'isolation (FE180)	IEC 60331-11/-21 (180 minutes), VDE 0472 part 814 (FE180), IEC 60331-1, IEC 60331-2 (120 minutes), EN 50200, VDE 0482-200 (PH120) and EN 50362, VDE 0482-362 (120 minutes), BS 6387 C/W/Z, AREI-RGIE Art.104-FR1
Maintien de fonction	FE180 E30 CL: according to DIN 4102-12, VKF Fire Safety Application No. 24176, AREI-RGIE Art.104-FR2

FE180 E30 CL

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VERSIONS

N° d'article	Produit	Nombres de coeurs	Section transversale [mm²]	Gaine Ø [mm]	Poids [kg/km]	Poids Cu [kg/km]	Charge d'incendie [kWh/m]	Conducteur
193886	FE180 E30 CL	3	1.5	11	211	43	0.46	massif
187199	FE180 E30 CL	3	2.5	12	256	72	0.50	massif
191097	FE180 E30 CL	3	4	14	373	115	0.69	massif
191121	FE180 E30 CL	3	6	15.8	487	173	0.90	massif
188354	FE180 E30 CL	3	10	18	655	288	1.20	massif
191595	FE180 E30 CL	4	2.5	14	298	96	0.56	massif
187167	FE180 E30 CL	4	4	16	408	154	0.79	massif
188352	FE180 E30 CL	4	6	17	539	230	1.06	massif
191038	FE180 E30 CL	5	2.5	14	397	120	0.76	massif
188350	FE180 E30 CL	5	4	16	488	192	1.05	massif
188353	FE180 E30 CL	5	6	17.5	643	288	1.28	massif
188397	FE180 E30 CL	5	10	21	971	480	1.76	massif
187197	FE180 E30 CL	7	2.5	16	481	168	0.91	massif
188355	FE180 E30 CL	7	6	19	801	403	1.53	massif
188356	FE180 E30 CL	7	10	23	1212	672	2.13	massif
192461	FE180 E30 CL	8	1.5	15	404	115	0.85	massif
187128	FE180 E30 CL	8	2.5	16	504	192	1.04	massif
191104	FE180 E30 CL	8	4	18	684	308	1.36	massif

Additional dimensions available on request