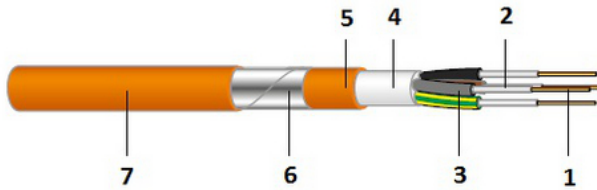


FE180 E30 CL

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



DESCRIPCIÓN

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.

CONSTRUCCIÓN

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

PROPIEDADES ELÉCTRICAS

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

PROPIEDADES MECÁNICAS

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:	-45°C to +90°C
	during installation:	-5°C to +50°C

NOTA

* System Circuit Integrity is dependent on installation method

ESTÁNDARES

Cero halógenos, gases no corrosivos	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, SEV TPV11, AREI-RGIE Art.104-SA
Propagación de la flama	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
Dispersión de la flama	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
Densidad de humo	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
Integridad de circuito (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
Integridad del Sistema de Circuito	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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VERSIONES

N° de artículo	Producto	Número de núcleos	Forro Ø [mm]	Peso [kg/km]	Prop. Cu [kg/km]	Carga de fuego [kWh/m]	Conductor
193886	FE180 E30 CL	3	11	211	43	0.46	de corrido
187199	FE180 E30 CL	3	12	256	72	0.50	de corrido
191097	FE180 E30 CL	3	14	373	115	0.69	de corrido
191121	FE180 E30 CL	3	15.8	487	173	0.90	de corrido
188354	FE180 E30 CL	3	18	655	288	1.20	de corrido
191595	FE180 E30 CL	4	14	298	96	0.56	de corrido
187167	FE180 E30 CL	4	16	408	154	0.79	de corrido
188352	FE180 E30 CL	4	17	539	230	1.06	de corrido
191038	FE180 E30 CL	5	14	397	120	0.76	de corrido
188350	FE180 E30 CL	5	16	488	192	1.05	de corrido
188353	FE180 E30 CL	5	17.5	643	288	1.28	de corrido
188397	FE180 E30 CL	5	21	971	480	1.76	de corrido
187197	FE180 E30 CL	7	16	481	168	0.91	de corrido
188355	FE180 E30 CL	7	19	801	403	1.53	de corrido
188356	FE180 E30 CL	7	23	1212	672	2.13	de corrido
192461	FE180 E30 CL	8	15	404	115	0.85	de corrido
187128	FE180 E30 CL	8	16	504	192	1.04	de corrido
191104	FE180 E30 CL	8	18	684	308	1.36	de corrido

Additional dimensions available on request