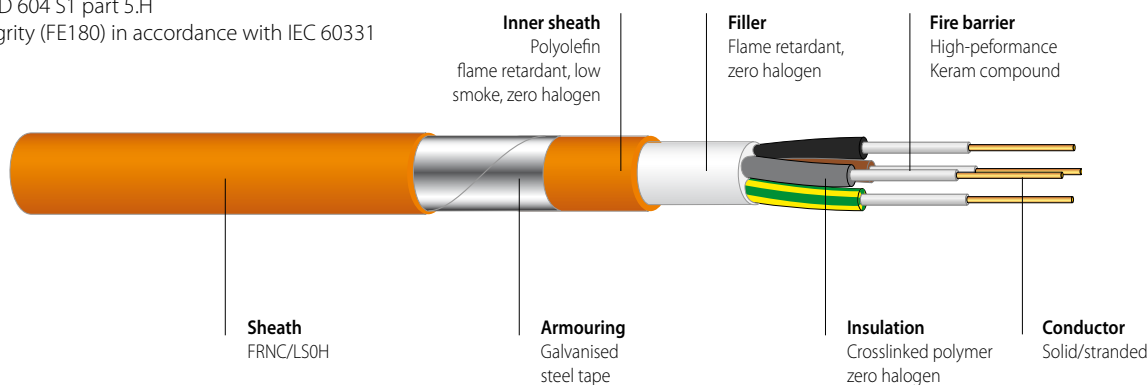


PREVENTIVE FIRE PROTECTION

FE180-CL

Safety cable 0.6/1kV armoured with rodent protection, pyrofil® Keram

Halogen-free, with improved fire characteristics with reference to SEV TP 20B/3C and CENELEC HD 604 S1 part 5.H
Circuit integrity (FE180) in accordance with IEC 60331



PRODUCT INFORMATION



APPLICATION

Safety cables are used in all situations that require special protection against fire and flame damage for people and equipment and where a high degree of safety conditions 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 +90°C.

CONSTRUCTION

Conductor	Bare copper, solid or stranded, IEC 60228 and EN 60228
Insulation	Special compound, HD 604 S1 part 5 H
Filler	HD 604 S1 part 5 H
Inner sheath	Compound, HD 604 S1 part 5 H
Armouring [rodent protection]	Single core cable with copper tape [CLCU] and multicore cable with galvanised steel tape [CL]
Outer sheath	Compound, HD 604 S1 part 5 H
Core colours	CENELEC HD 308 S2
Sheath colour	Orange
Imprint	On request

ELECTRICAL PROPERTIES

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

GENERAL PROPERTIES

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

Zero halogen, non corrosive gases	IEC 60754-2, EN 50267-2-2, VDE 0482-267-2-2, SEV TP20B/3C 3.4.4
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, SEV TP20B/3C 3.4.1.1
Flame spread	IEC 60332-3-24 Cat. C, EN 60332-3-24 Cat. C, VDE 0482-332-3-24 Cat. C, SEV TP20B/3C 3.4.1.3
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, SEV TP20B/3C 3.4.3
Circuit integrity [FE/PH]	IEC 60331-11/-21 (180 minutes) , VDE 0472 part 814 (FE180), SEV TP20B/3C 3.4.2

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PRODUCT INFORMATION



Article No.	No. of cores x cross section			Cu content kg/km	Total weight app. kg/km	Outer diameter app. mm	Fire load kWh/m
	n x mm ²						
191 595	4	x	1,5 RE	58	251	12	0,54
187 167	4	x	2,5 RE	96	336	14	0,56
188 352	4	x	4 RE	154	454	16	0,79
186 980	4	x	6 RE	230	538	17	1,06
186 981	4	x	10 RE	384	872	21	1,48
186 982	4	x	16 RM	614	1296	25	2,20
190 589	4	x	25 RM	960	1820	29	2,78
192 488	4	x	35 RM	1344	2296	32	3,16
192 429	4	x	50 RM	1920	3035	36	4,02
192 430	4	x	70 RM	2688	4044	40	5,05
	4	x	95 RM	3648	5426	46	6,52
	4	x	120 RM	4608	6494	49	7,26
	4	x	150 RM	5760	8140	54	8,72
187 202	5	x	1,5 RE	72	260	12	0,58
191 038	5	x	2,5 RE	120	360	14	0,76
188 350	5	x	4 RE	192	489	16	1,05
188 353	5	x	6 RE	288	647	18	1,28
188 397	5	x	10 RE	480	971	21	1,76
187 154	5	x	16 RM	768	1536	27	2,53
186 984	5	x	25 RM	1200	2171	31	3,23
187 132	5	x	35 RM	1680	2808	35	3,85
187 131	5	x	50 RM	2400	3686	39	4,83
	5	x	70 RM	3360	5053	45	6,05
	5	x	95 RM	4560	6792	52	8,14

RE = circular, solid conductor

RM = circular, stranded conductor

Additional dimensions available on request.