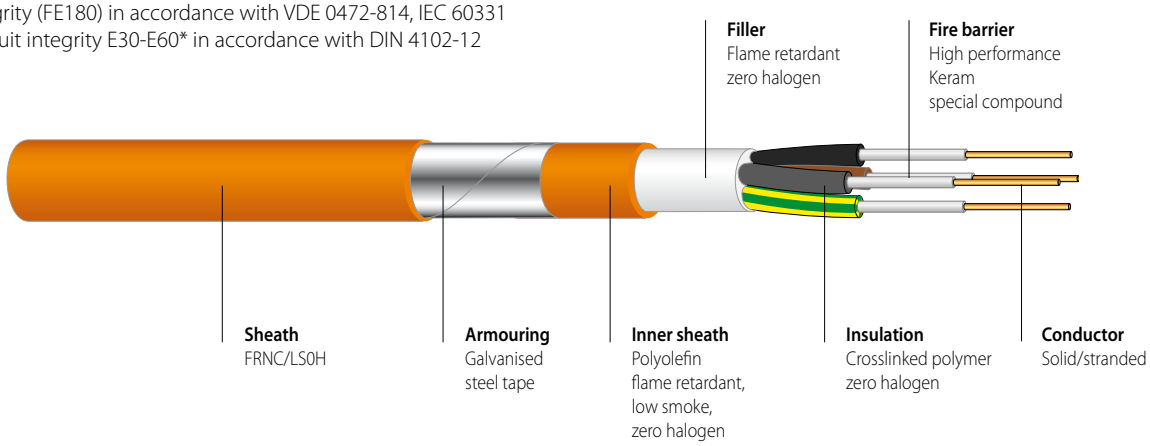
(N)HXH CL FE180 E30-E60

Safety cable 0.6/1kV armoured with rodent protection, pyrofil® 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 E30-E60* in accordance with DIN 4102-12



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. These cables correspond to the demands of circuit integrity E30-E60* in accordance with DIN 4102-12. Circuit integrity is guaranteed at an operating voltage up to 400V.
Permitted operating temperature at conductor +90°C.

CONSTRUCTION

Conductor	Bare copper, solid or stranded, IEC 60228, EN 60228, (VDE 0295)
Insulation	Double insulation, cross-linked, high-performance Keram special compound, VDE 0266 "HXI1"
Filler	Flame retardant, halogen-free, thermoplastic compound
Inner sheath	Flame retardant Polyolefin compound, CENELEC HD 604 S1 and VDE 0276-604 "HM4"
Armouring [rodent protection]	Single core cable with copper tape [CLCU] and multicore cable with galvanised steel tape [CL]
Outer sheath	Flame retardant Polyolefin compound, CENELEC HD 604 S1 and VDE 0276-604 "HM4"
Core colours	CENELEC HD 308 S2 and VDE 0293
Sheath colour	Orange
Imprint	DATWYLER PYROFIL KERAM (N)HXH „CLCU or CL" FE180 E30-E60 1kV "N X MM2" VDE REG. NR. 7800 „YEAR" "ORDER NO." SWISS MADE "METRE MARKING" or on request

ELECTRICAL PROPERTIES

Nominal voltage	0.6/1kV
Test voltage	4000V, 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	-45°C to +90°C
	during installation	-5°C to +50°C
Zero halogen, non corrosive gases		IEC 60754-2, EN 50267-2-2, VDE 0482-267-2-2
Flame propagation		IEC 60332-1-2, EN 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
Smoke density		IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2
Circuit integrity [FE/PH]		IEC 60331-11/-21 (180 minutes), VDE 0472 part 814 (FE180), BS 6387 C/W/Z
System Circuit integrity [E30-E60]*		DIN 4102 part 12

* System Circuit integrity is dependent on installation method.

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Article No.	No. of cores x cross section n x mm²	Cu content kg/km	Total weight app. kg/km	Outer diameter app. mm	Fire load kWh/m
192 350	2 x 1,5 RE	29	336	15	0,94
187 562	2 x 2,5 RE	48	385	16	1,02
191 612	2 x 4 RE	77	453	17	1,13
187 563	2 x 6 RE	115	531	18	1,25
	2 x 10 RE	192	673	20	1,43
	2 x 16 RM	307	911	22	1,79
	2 x 25 RM	480	1239	25	2,22
	2 x 35 RM	672	1536	28	2,64
	2 x 50 RM	960	1956	31	3,04
	2 x 70 RM	1344	2640	35	3,79
	2 x 95 RM	1824	3476	40	4,89
	2 x 120 RM	2304	4119	42	5,47
	2 x 150 RM	2880	5087	47	6,62
	2 x 185 RM	3552	6268	52	8,13
191 107	3 x 1,5 RE	43	364	16	1,00
186 940	3 x 2,5 RE	72	426	17	1,10
192 351	3 x 4 RE	115	509	18	1,22
188 326	3 x 6 RE	173	607	19	1,35
191 597	3 x 10 RE	288	785	21	1,54
188 327	3 x 16 RM	461	1075	24	1,93
	3 x 25 RM	720	1491	27	2,41
	3 x 35 RM	1008	1865	29	2,73
	3 x 50 RM	1440	2404	32	3,29
	3 x 70 RM	2016	3315	37	4,22
	3 x 95 RM	2736	4369	42	5,42
	3 x 120 RM	3456	5222	45	6,04
	3 x 150 RM	4320	6460	50	7,30

RE = circular, solid conductor
RM = circular, stranded conductor

Additional dimensions available on request.

* Circuit integrity is dependent on installation method