

**PREVENTIVE FIRE PROTECTION**

**(N)HXH CL FE180 E30-E60**

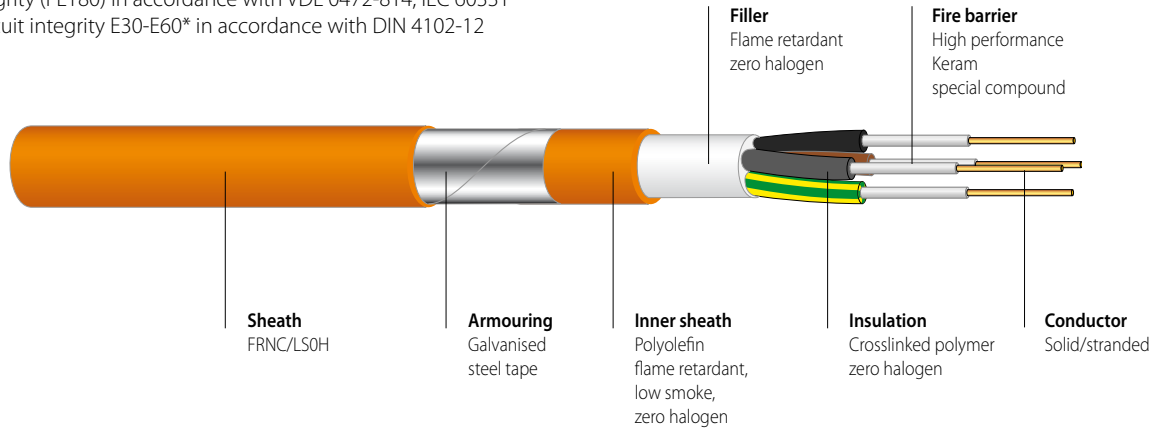
**Safety cable 0.6/1kV armoured with rodent protection, pyrofil® Keram**

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 "HX11"
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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## 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 <sup>2</sup>							
185 232	7	x	1,5	RE	101	532	19	1,38
	7	x	2,5	RE	168	643	20	1,53
185 245	7	x	4	RE	269	799	21	1,71
185 247	7	x	6	RE	403	987	23	1,9
185 248	7	x	10	RE	672	1343	25	2,2
188 095	8	x	1,5	RE	115	605	20	1,53
	8	x	2,5	RE	192	732	21	1,69
	8	x	4	RE	307	916	23	1,91
185 239	10	x	1,5	RE	144	701	22	1,78
	10	x	2,5	RE	240	858	24	1,98
	10	x	4	RE	384	1080	26	2,24
185 239	12	x	1,5	RE	173	764	23	1,9
	12	x	2,5	RE	288	873	23	2,13
	12	x	4	RE	461	1205	26	2,42
185 233	14	x	1,5	RE	202	847	23	2,07
	14	x	2,5	RE	336	1062	25	2,34
185 233	16	x	1,5	RE	231	926	24	2,24
	16	x	2,5	RE	384	1155	26	2,52
185 235	21	x	1,5	RE	303	1093	27	2,58
	21	x	2,5	RE	504	1381	29	2,89
185 241	27	x	1,5	RE	389	1311	29	3,06
	27	x	2,5	RE	648	1681	32	3,45
185 235	30	x	1,5	RE	432	1407	30	3,25
185 241	30	x	2,5	RE	720	1848	33	3,81

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

Additional dimensions available on request.

\* Circuit integrity is dependent on installation method