

# pyrofil® Keram (N)HXH CL FE180 E30-E60

Safety low voltage cable 0.6/1kV armoured with rodent-protection

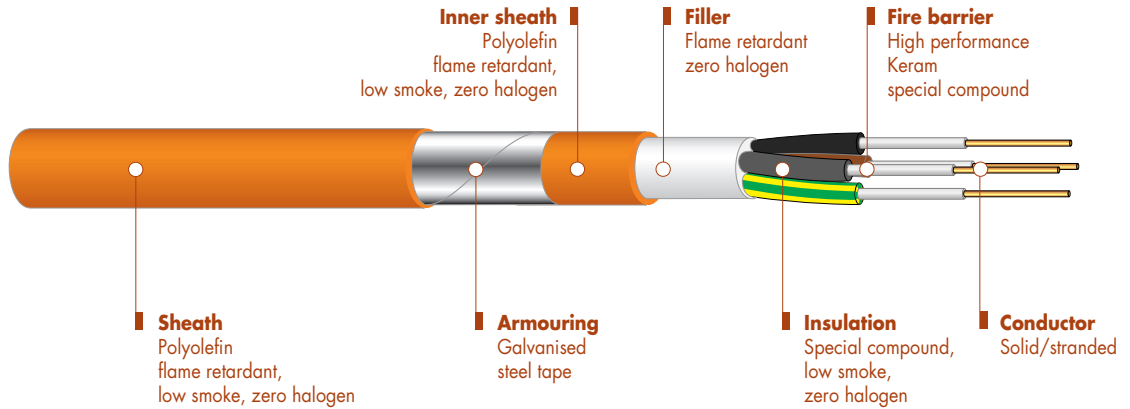
Halogen-free, with improved fire characteristics

With reference to VDE 0266 and CENELEC HD 604 S1

Insulation integrity FE180 in accordance with VDE 0472-814, IEC 60331

Circuit integrity E30-E60\* in accordance with DIN 4102-12

Dätwyler



## 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 to IEC 60228, EN 60228, (VDE 0295)
Insulation	Double insulation, cross-linked, high-performance Keram special compound according to VDE 0266 "HX11"
Filler	Flame retardant, halogenfree, thermoplastic compound
Inner sheath	Flame retardant, Polyolefin compound according to CENELEC HD 604 S1 and VDE 0276-604 "HM4"
Armouring / [rodent-protection]	Galvanised steel tape
Outer sheath	Flame retardant, Polyolefin compound according to CENELEC HD 604 S1 and VDE 0276-604 "HM4"
Core colours	According to CENELEC HD 308 S2 and VDE 0293
Sheath colour	orange
Printing	DÄTWYLER PYROFIL KERAM (N)HXH CL FE180 E30-E60 1kV "N X MM²" VDE REG. NR. 7800 "ORDER NO." "YEAR" "METRE MARKING"

### Technical Properties

Nominal voltage	0.6/1kV
Test voltage	4000V, 50Hz
Operating Temperature	-5°C to +90°C

### General Properties

Zero halogen	IEC 60754-2, EN 50267, VDE 0482-267
Flame retardance	IEC 60332-1, (EN 50265-2-1) New: EN 60332-1, (VDE 0482-265-2-1), New: VDE 0482-332-1
Reduced fire propagation	IEC 60332-3 cat. C, EN 50266-2-4, VDE 0482-266-2-4
Minimum smoke emission	IEC 61034, (EN 50268), New: EN 61034, (VDE 0482-268), New: VDE 0482-1034
Insulation integrity FE180	IEC 60331, VDE 0472 part 814, EN 50200, VDE 0482-1
Circuit integrity E30-E60* Verlegung	DIN 4102 part 12 Bündelung möglich, Verlegeabstand Einfachschelle bis 600 mm, Bügelschelle ohne Langwanne bis 800 mm

\* Circuit integrity is dependent on installation method

Article No.	No. of cores x cross section		Cu content	Total weight	Outer diameter	Fire load	
	n	x mm <sup>2</sup>	kg/km	app. kg/km	app. mm	kWh/m	
187 562	2	x 1,5 RE	29	336	15	0,94	
	2	x 2,5 RE	48	385	16	1,02	
	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	
	186 940	3	x 1,5 RE	43	364	16	1,00
		3	x 2,5 RE	72	426	17	1,10
3		x 4 RE	115	509	18	1,22	
188 326	3	x 6 RE	173	607	19	1,35	
	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	

Additional dimensions available on request.

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Article No.	No. of cores x cross section	Cu content	Total weight	Outer diameter	Fire load
	n x mm <sup>2</sup>	kg/km	app. kg/km	app. mm	kWh/m
	4 x 1,5 RE	58	410	17	1,11
	4 x 2,5 RE	96	485	18	1,22
	4 x 4 RE	154	585	19	1,36
	4 x 6 RE	230	710	20	1,51
	4 x 10 RE	384	940	22	1,76
186 980	4 x 16 RM	614	1296	25	2,2
186 981	4 x 25 RM	960	1820	29	2,78
186 982	4 x 35 RM	1344	2296	32	3,16
	4 x 50 RM	1920	3037	36	4,02
	4 x 70 RM	2688	4157	41	5,05
	4 x 95 RM	3648	5498	47	6,52
	4 x 120 RM	4608	6595	50	7,26
	5 x 1,5 RE	72	466	18	1,25
188 117	5 x 2,5 RE	120	556	19	1,38
188 118	5 x 4 RE	192	676	20	1,54
186 941	5 x 6 RE	288	826	21	1,72
186 942	5 x 10 RE	480	1096	24	1,98
187 154	5 x 16 RM	768	1460	26	2,53
186 984	5 x 25 RM	1200	2171	31	3,23
187 132	5 x 35 RM	1680	2730	35	3,85
187 131	5 x 50 RM	2400	3620	39	4,83
	5 x 70 RM	3360	5054	45	6,05
	5 x 95 RM	4560	6792	52	8,14
	6 x 1,5 RE	86	521	19	1,39
	6 x 2,5 RE	144	625	20	1,54
188 094	6 x 4 RE	230	693	20	1,74
	6 x 6 RE	346	943	23	1,94
	6 x 10 RE	576	1269	25	2,26

Additional dimensions available on request.

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Article No.	No. of cores x cross section		Cu content	Total weight	Outer diameter	Fire load
	n	x mm <sup>2</sup>	kg/km	app. kg/km	app. mm	kWh/m
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
	8	x 15 RE	115	605	20	1,53
	8	x 25 RE	192	732	21	1,69
188 095	8	x 4 RE	307	916	23	1,91
	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
	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
	21	x 1,5 RE	303	1093	27	2,58
	21	x 2,5 RE	504	1381	29	2,89
	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

Additional dimensions available on request.

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