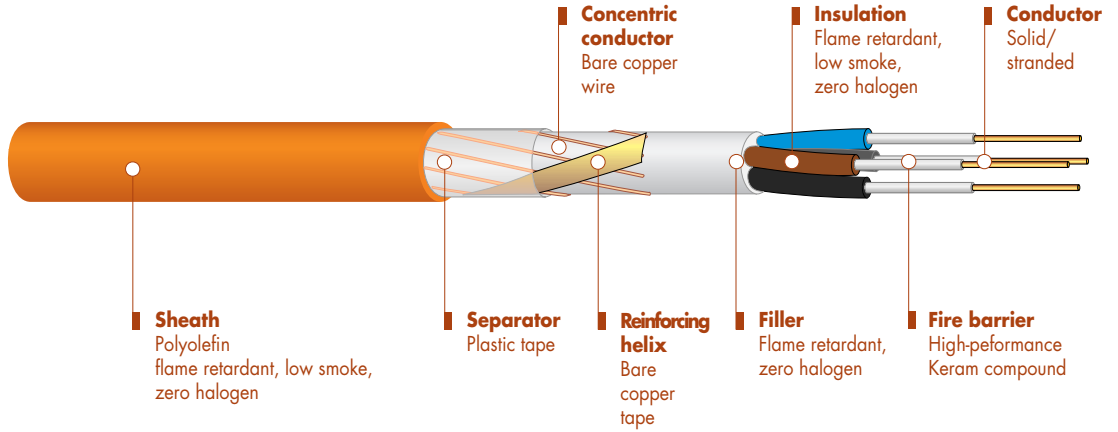


pyrofil® Keram (N)HXCH FE180 E90

Safety low voltage cable 0.6/1kV

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 E90 in accordance with DIN 4102-12



Sheath
 Polyolefin
 flame retardant, low smoke,
 zero halogen

Separator
 Plastic tape

Reinforcing helix
 Bare copper
 tape

Filler
 Flame retardant,
 zero halogen

Fire barrier
 High-performance
 Keram compound

Concentric conductor
 Bare copper
 wire

Insulation
 Flame retardant,
 low smoke,
 zero halogen

Conductor
 Solid/
 stranded

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 E90 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	Halogenfree, compound or plastic tape
Concentric conductor	Bare copper wires with reinforced helix
Separator	Plastic tape
Outer sheath	Polyolefin compound in accordance with 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)HXCH FE180 E90 1kV "N X MM²" VDE REG. NR. 7780 "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 non corrosive gases	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/A, 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 E90	DIN 4102 part 12
Installation	Cables can be bundled, single clamp laying distance up to 600 mm, Strap clamps without trough up to 800mm

Article No.	No. of cores x cross section		Cu content	Total weight	Outer diameter	Fire load
	n x mm ²		kg/km	app. kg/km	app. mm	kWh/m
186 071	3 x 1,5	RE/1,5	66	248	13,2	0,65
186 195	3 x 2,5	RE/2,5	104	308	14,1	0,72
186 197	3 x 4	RE/4	161	404	15,7	0,84
187 278	3 x 6	RE/6	240	504	16,8	0,94
187 279	3 x 10	RE/10	408	727	18,6	1,15
187 251	3 x 16	RM/16	643	1166	24,4	1,64
187 406	3 x 25	RM/16	902	1496	25,8	1,95
172 417	3 x 35	RM/16	1190	1820	28,2	2,25
187 408	3 x 50	RM/25	1723	2493	32,5	2,90
187 409	3 x 70	RM/35	2410	3350	36,1	3,42
187 410	3 x 95	RM/50	3296	4570	42,0	4,50
187 411	3 x 120	RM/70	4236	5620	45,4	5,02
187 412	3 x 150	RM/70	5100	6850	50,7	6,00
187 413	3 x 185	RM/95	6383	8350	55,0	7,10
187 414	3 x 240	RM/120	8242	11100	62,1	9,08
186 072	4 x 1,5	RE/1,5	81	286	14,1	0,73
186 196	4 x 2,5	RE/2,5	128	358	15,1	0,82
186 198	4 x 4	RE/4	200	473	16,8	0,96
186 199	4 x 6	RE/6	297	621	18,1	1,13
186 200	4 x 10	RE/10	504	868	20,1	1,33
186 131	4 x 16	RM/16	796	1400	25,3	1,81
186 132	4 x 25	RM/16	1142	1895	28,9	2,28
186 133	4 x 35	RM/16	1526	2376	31,6	2,60
186 134	4 x 50	RM/25	2203	3249	36,7	3,49
186 135	4 x 70	RM/35	3082	4426	41,3	4,25
186 136	4 x 95	RM/50	4208	5809	46,4	5,53
186 137	4 x 120	RM/70	5388	7134	50,1	6,25
186 138	4 x 150	RM/70	6540	8703	55,3	7,58
186 139	4 x 185	RM/95	8159	10827	60,8	9,18
186 140	4 x 240	RM/120	10546	14139	69,2	11,60
186 073	7 x 1,5	RE/2,5	133	393	16,1	0,94
187 280	7 x 2,5	RE/2,5	200	491	17,3	1,05
187 415	12 x 1,5	RE/2,5	205	595	20,2	1,38
172 454	12 x 2,5	RE/4	334	798	22,6	1,63
187 402	24 x 1,5	RE/6	413	901	27,4	2,32
187 403	24 x 2,5	RE/10	696	1205	30,6	2,69
187 404	30 x 1,5	RE/6	499	1252	29,1	2,67
187 405	30 x 2,5	RE/10	840	1692	32,2	3,11

Additional dimensions available on request.