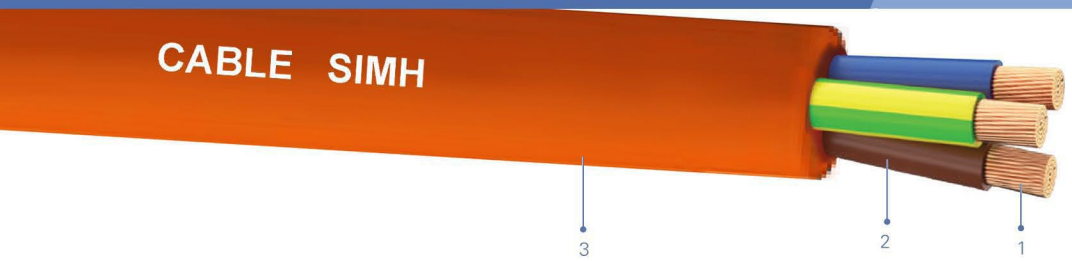
■SIMH-O

FE 180/PH 15..120

-60°C /+200°C



APPLICATION

Fire resistant power cables. Capable of functioning under the flame for minimum 180 minutes during fire. These cables are used in crowded places such as airports, museums, highway tunnels, cinemas, theaters, hotels, hospitals, schools, shopping malls, business center and iron & steel, glass and cement industries. The most important characteristics of these cables are being made of special silicone. This silicone distinguishes them from the other fire resistant cables due that there is no significant changes in their current carrying capacity as there is no insulation impairment even in hot environment and under the flame. Beside this they become totally seramised and there is no flaming droplet under the fire.

TECHNICAL SPECIFICATIONS

1	Conductor	EN 60228 class 2,5,6
2	Nominal operating voltage	0,6 / 1,0 kV
3	Test voltage	2000 V
4	Short circuit voltage	5000 V
5	Operating temperature	-60°C…200°C
6	Storage temperature max.	+40°C
7	Reference standards	TSE K 331
8	Smoke denstiy	EN 61034-2
9	Halogen acid gas content)	EN 60754-1
10	Degree of acidity of gases	EN 60754-2
11	Flame propagation	EN 60332-3-24 Cat C EN 60332-3-22 Cat A
12	Flaming droplets	EN 60332-1-3
13	Fire resistance	EN 50200 PH 15..120 EN 50362 PH 15..120
14	Circuit integrity	IEC 60331-21 FE 180 BS 6387 CWZ

STRUCTURE

1	Conductor	Electrolytic stranded or flexible copper (bare or tinned)
2	Insulation	LSZH-FR EI 2 special ceramic silicone
2	Sheath	LZSH-FR EM 9 special ceramic silicone

Electrolitic copper is insulated with LSZH-FR EI 2 ceramic silicone. All cores are twisted in layers between themselves an LSZH-FR EM 9 ceramic silicone sheat is applied overall cores.

Note: They are manufactured in orange colour as a standard. Apart from this,they can be maanufactured in any desired colour.For conductor resistance values please refer to the table-5 in Technical informations.

-60°C /+200°C

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Cable type	Number of cores		Cross section (mm²)	Nominal cable outer diameter (Ømm)	Copper weight (kg/km)	Cable weight (kg/km)
(*) SIMH-O	2	x	0,75	7,25	12,7	69,6
(*) SIMH-O	3	x	0,75	7,60	19,1	81,2
(*) SIMH-O	4	x	0,75	8,20	25,5	97,1
(*) SIMH-O	5	x	0,75	8,90	31,8	116,0
(*) SIMH-O	2	x	1,00	7,55	17,0	78,5
(*) SIMH-O	3	x	1,00	7,95	25,5	92,7
(*) SIMH-O	4	x	1,00	8,60	33,9	111,7
(*) SIMH-O	5	x	1,00	9,40	42,4	134,0
(*) SIMH-O	2	x	1,50	8,85	24,0	107,8
(*) SIMH-O	3	x	1,50	9,40	35,9	128,2
(*) SIMH-O	4	x	1,50	10,15	47,9	155,5
(*) SIMH-O	5	x	1,50	11,15	59,9	189,3
(*) SIMH-O	6	x	1,50	12,10	71,9	210,9
SIMH-O	7	x	1,50	12,10	83,9	233,2
(*) SIMH-O	2	x	2,50	9,75	40,1	140,0
(*) SIMH-O	3	x	2,50	10,35	60,1	171,1
(*) SIMH-O	4	x	2,50	11,25	80,2	209,9
(*) SIMH-O	5	x	2,50	12,70	100,2	266,5
SIMH-O	7	x	2,50	14,20	140,3	344,1
(*) SIMH-O	2	x	4,00	11,20	64,7	194,3
(*) SIMH-O	3	x	4,00	11,80	97,1	238,7
(*) SIMH-O	4	x	4,00	14,00	129,4	327,7
(*) SIMH-O	5	x	4,00	15,40	161,8	402,5
(*) SIMH-O	2	x	6,00	13,85	96,7	296,5
(*) SIMH-O	3	x	6,00	14,90	145,0	370,3
(*) SIMH-O	4	x	6,00	17,00	193,4	487,4
(*) SIMH-O	5	x	6,00	19,50	241,7	632,1
(*) SIMH-O	2	x	10,00	17,10	168,6	470,2
(*) SIMH-O	3	x	10,00	18,25	252,9	588,5
(*) SIMH-O	4	x	10,00	21,70	337,3	811,4
(*) SIMH-O	5	x	10,00	24,10	421,6	1007,6
(*) SIMH-O	2	x	16,00	21,90	268,7	756,3
(*) SIMH-O	3	x	16,00	23,55	403,0	949,4
(*) SIMH-O	4	x	16,00	27,30	537,3	1272,4
(*) SIMH-O	5	x	16,00	29,70	671,7	1530,9
(*) SIMH-O	3	x	25,00	28,85	630,6	1451,1
(*) SIMH-O	4	x	25,00	31,20	840,8	1781,7
(*) SIMH-O	5	x	25,00	35,10	1051,1	2238,7
(*) SIMH-O	3	x	35,00	31,50	894,5	1847,4
(*) SIMH-O	4	x	35,00	35,20	1192,6	2366,6
(*) SIMH-O	3	x	50,00	37,65	1254,4	2614,2
(*) SIMH-O	4	x	50,00	41,25	1672,5	3278,5
(*) SIMH-O	3	x	70,00	44,90	1808,0	3727,2
(*) SIMH-O	4	x	70,00	48,55	2410,7	4603,3
(*) SIMH-O	3	x	95,00	47,30	2342,2	4422,9
(*) SIMH-O	4	x	95,00	51,20	3122,9	5499,5
(*) SIMH-O	3	x	120,00	51,25	3015,2	5409,3
(*) SIMH-O	4	x	120,00	59,70	4020,3	7279,8

(*) Belge kapsamındaki kesitleri ifade eder.