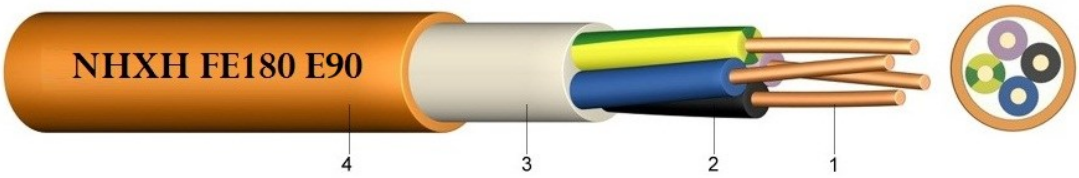
NHXH FE180 E90

Halogen free, fire resistant power cable, with insulation integrity FE180 and circuit integrity E90, 0.6/1 kV.



Construction:

1. Conductor : bare copper, solid or stranded.
2. Insulation : cross-linked halogen free ceramic forming 2 layer insulation, core colours according to HD 308.
3. Inner covering : halogen free compound.
4. Outer sheath : halogen free polymer compound, orange.

Properties:

Halogen free.
Fire resistant.
Low smoke generation.
No emission of corrosive gases.

Technical data and tests:

Nominal voltage Uo/U	: 600/1000 V.
Service temeprature	: -30° C… +90° C.
Bending radius	: single core: 15 x diameter. multi core: 12 x diameter.
Laying temperature	: -5° C… +90° C.

Standards:

Cable standard	: DIN VDE 0266.
Fire retardant	: IEC 60332-3 cat. C.
Insulation integrity FE 180	: DIN VDE 0472-814.
Circuit integrity E 90	: DIN 4102 Part 12.

Applications:

These flexible halogen-free cables main properties are being fire proof and halogen free which on the basis of a fixed operating mode, can continue with the supply of power under fire. These cables are used as energy, utility and lighting cables in dry, moist and wet rooms, for permanent installation above, on , in and beneath plaster and also for outdoor applications where lots of human life and material assets need to be protected in industrial constructions, schools, hospitals, shopping and cultural centers, energy plants, airports, metros. Direct burial in ground or direct laying in water is not permissible. However, laying in a pipe is allowed if water accumulations are excluded. During installation the cables have to be protected from any external influences or mechanical damages. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is exremely low. They may not be installed directly into the ground and into the water. This cable conforms with Safety Class II standards.

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DIMENSIONS

Number of cores and nominal cross section mm²	Overall diameter appr. mm	Weight appr. kg / km	Calorific potential kWh / m
1 x 6 RE	6,8	92	0,18
1 x 10 RE	7,9	139	0,23
1 x 16 RM	10,1	225	0,36
1 x 25 RM	11,3	321	0,42
1 x 35 RM	12,5	419	0,48
1 x 50 RM	13,8	548	0,57
1 x 70 RM	15,7	759	0,69
1 x 95 RM	17,7	1.026	0,82
1 x 120 RM	19,3	1.268	0,95
1 x 150 RM	21,3	1.559	1,17
1 x 185 RM	23,5	1.941	1,39
1 x 240 RM	26,2	2.505	1,67
2 x 1,5 RE	9,0	125	0,35
2 x 2,5 RE	10,0	160	0,41
3 x 1,5 RE	9,4	143	0,38
3 x 2,5 RE	10,4	189	0,45
3 x 4 RE	11,7	258	0,56
3 x 6 RE	13,0	339	0,67
3 x 10 RE	15,7	522	0,95
3 x 16 RM	21,5	902	1,73
3 x 25 RM	24,7	1290	2,15
3 x 35 RM	27,3	1.657	2,49
3 x 35+1x16 RM	28,3	1.837	2,64
3 x 50+1x25 RM	31,4	2.407	313
3 x 70+1x35 RM	35,8	3.282	3,89
3 x 95+1x50 RM	41,1	4450	5,04
3 x 120+1x70 RM	45,4	5.585	5,95
3 x 150+1x70 RM	48,8	6.577	6,86
3 x 185+1x95 RM	54,4	8.298	8,40
3 x 240+1x120 RM	60,4	10.561	10,07
4 x 1,5 RE	10,2	172	0,,45
4 x 2,5 RE	11,2	226	0,52
4 x 4 RE	12,6	312	0,64
4 x 6 RE	14,5	430	0,81
4 x 10 RE	17,4	663	1,14
4 x 16 RM	23,8	1.146	2,05
4 x 25 RM	26,7	1.594	2,41
4 x 35 RM	29,5	2.054	2,79
4 x 50 RM	32,9	2.681	3,38
4 x 70 RM	38,1	3.721	4,41
4 x 95 RM	43,0	4.984	5,32
4 x 120 RM	47,3	6.161	6,34
5 x 1,5 RE	11,1	205	0,51

RE= Round conductor, Single wire.
RM=Round conductor, Multi wire.

Any other sizes available on request.

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DIMENSIONS

Number of cores and nominal cross section mm²	Overall diameter appr. mm	Weight appr. kg / km	Calorific potential kWh / m
5 x 2,5 RE	1,24	276	0,62
5 x 4 RE	1,39	382	0,76
5 x 6 RE	1,60	528	0,97
5 x 10 RE	1,92	812	1,35
5 x 16 RM	2,57	1.373	2,30
5 x 25 RM	2,90	1.928	2,73
5 x 35 RM	3,22	2.505	3,17
5 x 50 RM	3,61	3.283	3,91
5 x 70 RM	4,23	4,620	5,23
5 x 95 RM	4,76	6.164	6,30
5 x 120 RM	5,21	7.591	7,37
5 x 150 RM	5,74	9.293	8,92
5 x 185 RM	6,37	11.582	10,86
5 x 240 RM	7,09	14.838	13,06
7 x 1,5 RE	1,21	248	0,60
10 x 1,5 RE	1,57	409	0,98
12 x 1,5 RE	1,61	443	1,04
7 x 2,5 RE	1,35	338	0,73
12 x 2,5 RE	1,80	603	1,26

RE= Round conductor, Single wire.
RM=Round conductor, Multi wire.

Any other sizes available on request.

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The above values correspond to the manufacturer's specifications and are not guaranteed.

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