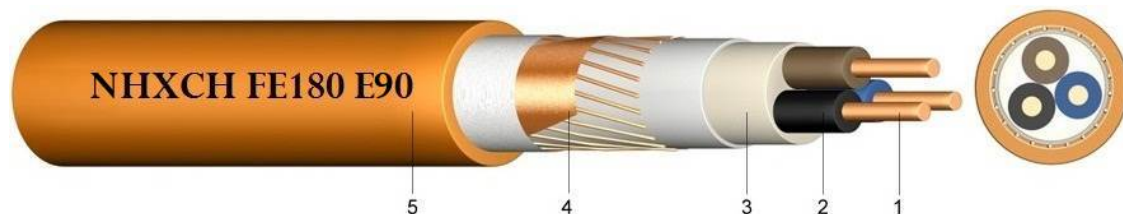




# HALLEY CABLES

# NHXCH FE180 E90

Halogen free, fire resistant power cable, with concentric conductor, 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. Concentric conductor | : copper wires with counter helix of copper tape.   |
| 5. 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 $U_0/U$ | : 600/1000 V.       |
| Service temperature     | : -30° C... +90° C. |
| Bending radius          | : 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. 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 extremely low. They may not be installed directly into the ground and into the water.





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www.halleycables.com

## DIMENSIONS

Number of cores and nominal cross section mm <sup>2</sup>	Overall diameter appr. mm	Weight appr. kg / km	Calorific potential kWh / m
3 x 1,5 RE/1,5	12,9	220	0,67
3 x 2,5 RE/2,5	14,2	281	0,77
3 x 4 RE/4	15,3	363	0,87
3 x 6 RE/6	17,2	474	1,03
3 x 10 RE/10	20,1	712	1,37
3 x 16 RM/16	23,7	1.077	1,82
3 x 25 RM/16	26,9	1.465	2,23
3 x 35 RM/16	29,5	1.833	2,57
3 x 50 RM/25	32,7	2.393	3,03
3 x 70 RM/35	37,6	3.293	3,88
3 x 95 RM/50	42,9	4.445	4,88
3 x 120 RM/70	47,0	5.551	5,72
3 x 150 RM/70	51,3	6.636	6,90
3 x 185 RM/95	57,0	8.334	8,27
3 x 240 RM/120	62,8	10.588	9,91
4 x 1,5 RE/1,5	13,6	256	0,74
4 x 2,5 RE/2,5	15,0	322	0,85
4 x 4 RE/4	16,2	422	0,96
4 x 6 RE/6	18,3	554	1,14
4 x 10 RE/10	21,5	846	1,55
4 x 16 RM/16	26,0	1.321	2,13
4 x 25 RM/16	28,9	1.770	2,50
4 x 35 RM/16	31,7	2.231	2,87
4 x 50 RM/25	35,5	2.944	3,48
4 x 70 RM/35	41,3	4.100	4,62
4 x 95 RM/50	46,6	5.492	5,57
4 x 120 RM/70	51,3	6.871	6,64
4 x 150 RM/70	55,8	8.225	7,87
4 x 185 RM/95	62,3	10.357	9,62
4 x 240 RM/120	68,7	13.184	11,48
7 x 1,5 RE/2,5	15,8	350	0,96
12 x 1,5 RE/2,5	19,0	498	1,30
24 x 1,5 RE/6	24,8	851	2,01
30 x 1,5 RE/6	25,9	982	2,25
7 x 2,5 RE/2,5	17,0	439	1,08
12 x 2,5 RE/4	20,7	661	1,49
24 x 2,5 RE/10	27,2	1.163	2,31
30 x 2,5 RE/10	28,5	1.357	2,60

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

Any other sizes available on request.



NHXCH FE180 E90