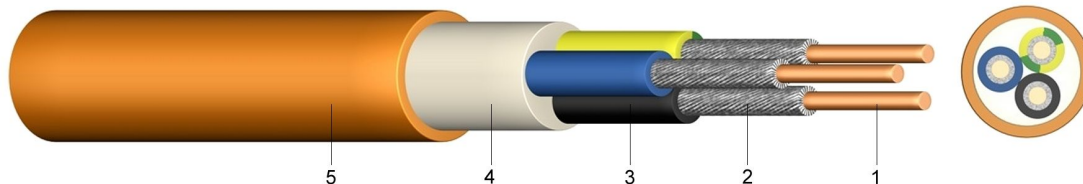




HALLEY CABLES

NHXXH FE180/E90

Fire Resistant, Flame Retardant - Halogen Free, Power Cable, With Insulation Integrity FE180 and Circuit Integrity E90, 0.6/1 kV.



Properties:

Rated Voltage 0,6 / 1 kV

Halogen Free with Improved Fire Characteristic, with reference to DIN VDE 0266 (HD 604 S1),

Circuit Integrity (FE 180) in accordance with IEC 60331

System Circuit Integrity E 90 * in accordance with DIN 4102-12

* System Circuit Integrity is dependent on installation method

Additional dimensions available on request.

Construction:

- 1. Conductor : Bare Copper - Solid or Stranded (Class 1, Class 2) / IEC 60228, EN 60228 / VDE 0295
- 2. Fire barrier : Mica tape / HD 604 S1 (EN 604 S1)
- 3. Insulation : Cross Linked Halogen Free (XLPE) - 1 or 2 layer compound - HXI 1 / HD 604 S1 (EN 604 S1)
- Core colour : HD 308 S2
- 4. Filler * : Flame Retardant Halogen Free Thermo Plastic Compound / HD 604 S1 (EN 604 S1)
- 5. Outer sheath : Flame Retardant Halogen Free Polymer Compound - HM4 / HD 604 S1 (EN 604 S1)

Cable Color : Orange

* : There are no filler in single core cables



Technical data and tests:

Nominal voltage U_0/U	: 0,6/1 (1.2) kV	RE: Solid Conductor (Class 1)
Test Voltage	: 4 kV in 50 Hz AC during the 5 minutes	RM: Stranded Conductor (Class 2)
Min. Bending Radius	: 15xD for Single Core Cables	
(during and permanent install.)	: 12xD for Multicore Cables	
	D: Cable Outer Diameter	
Operating Temperature		J: With Yellow/Green Color
Permanent Installation	: -30° C to 90° C	O: Without Yellow/Green Color
During Installation	: -5° C to 50° C	
Max. Short Circuit Temperature	: 250° C for 5 seconds	

Standards:

Cable Construction	: HD 604 S1 - EN 604 S1 - HD 627 DIN VDE 0266
Zero halogen no corrosive gasses	: IEC 60754-1/-2 EN 50267-2-1/-2-2 VDE 0482-267-2-1/-2-2
Flame Propagation	: IEC 60332-1/-2 EN 60332-1/-2 VDE 0482-332-1-2
Flame Spread	: IEC 60332-3-22/-24 (Cat A/C) EN 60332-3-22/-24 (Cat A/C) VDE 0482-332-3-22/-24 (Cat A/C)
Smoke Density	: IEC 61034-1/-2 EN 61034-1/-2 VDE 0482-1034-1/-2
Circuit Integrity with shock	: EN 50200 PH90 ($\leq 20\text{mm } \varnothing$) EN 50362 PH90 ($> 20\text{mm } \varnothing$; max. 45mm \varnothing)
Circuit Integrity (FE180)	: IEC 60331-11/-21 VDE 0472 part 6 - 814 (180min.)
System Circuit Integrity (E90)	: DIN 4102 part 12 (depending on laying system)



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www.halleycables.com

Applications:

These 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 where lots of human life and material assets need to be protected in industrial constructions, office building, residential buildings, schools, hospitals, shopping and cultural centers, energy plants, airports, underground railway systems. 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 extremely low. This cable conforms to Safety Class II standards.

Code	Conductor Resistance Ω /km	Ampacity * (in air) Trefoil A	CU rate kg/km	WEIGHT kg/km	Outer diameter \varnothing	Length/drum (m)	Colour
NHXXH-O FE180/ E90 1X6 RE 0,6/1KV	3,08	57	51	105	7,4	2000	orange
NHXXH-O FE180/ E90 1X10 RM 0,6/1KV	1,83	77	86	155	8,7	2000	orange
NHXXH-O FE180/ E90 1X16 RM 0,6/1KV	1,15	102	136	215	9,7	2000	orange
NHXXH-O FE180/ E90 1X25 RM 0,61KV	0,727	139	215	315	11	2000	orange
NHXXH-O FE180/ E90 1X35 RM 0,61KV	0,524	170	297	410	12	2000	orange
NHXXH-O FE180/ E90 1X50 RM 0,6/1KV	0,387	208	407	535	14	1000	orange
NHXXH-O FE180/ E90 1X70 RM 0,6/1KV	0,268	265	583	740	15	1000	orange
NHXXH-O FE180/ E90 1X95 RM 0,6/1KV	0,193	326	810	1000	17	1000	orange
NHXXH-O FE180/ E90 1X120 RM 0,6/1KV	0,153	381	1031	1235	19	1000	orange
NHXXH-O FE180/ E90 1X150 RM 0,6/1KV	0,124	438	1256	1500	21	1000	orange
NHXXH-O FE180/ E90 1X185 RM 0,6/1KV	0,0991	507	1576	1800	23	1000	orange
NHXXH-O FE180/ E90 1X240 RM 0,6/1KV	0,0754	606	2088	2400	26	1000	orange
NHXXH-O FE180/ E90 1X300 RM 0,6/1KV	0,0601	697	2621	2950	28	1000	orange
NHXXH-O FE180/ E90 2X1,5 RE 0,6/1KV	12,1	32	26	155	11	2000	orange
NHXXH-O FE180/ E90 2X2,5 RE 0,6/1KV	7,41	42	42	190	12	2000	orange
NHXXH-O FE180/ E90 2X4 RE 0,6/1KV	4,61	56	68	240	13	2000	orange
NHXXH-J FE180/ E90 3X1,5 RE 0,6/1KV	12,1	24	39	170	12	1000	orange
NHXXH-J FE180/ E90 3X2,5 RE 0,6/1KV	7,41	32	63	215	13	1000	orange
NHXXH-J FE180 / E90 3X4 RE 0,6/1kV	4,61	42	102	275	14	1000	orange
NHXXH-J FE180/ E90 3x6 RE 0,6/1KV	3,08	53	153	350	15	1000	orange
NHXXH-J FE180/ E90 3x10 RM 0,6/1KV	1,83	73	258	520	17	1000	orange
NHXXH-J FE180/ E90 3x16 RM 0,6/1KV	1,15	96	408	750	20	1000	orange
NHXXH-J FE180/ E90 3x25 RM 0,6/1KV	0,727	130	645	1190	24	1000	orange
NHXXH-J FE180/ E90 3x35 RM 0,6/1KV	0,524	160	891	1500	26	1000	orange
NHXXH-J FE180/ E90 3x50 RM 0,6/1KV	0,387	195	1221	1950	29	1000	orange
NHXXH-J FE180/ E90 3x70 RM 0,6/1KV	0,268	247	1749	2750	33	1000	orange
NHXXH-J FE180/ E90 3x95 RM 0,6/1KV	0,193	305	2430	3600	37	1000	orange
NHXXH-J FE180/ E90 3x120 RM 0,6/1KV	0,153	355	3093	4500	41	1000	orange
NHXXH-J FE180/ E90 3x150 RM 0,6/1KV	0,124	407	3768	5550	46	500	orange
NHXXH-J FE180/ E90 3x185 RM 0,6/1KV	0,0991	469	4728	6900	50	500	orange
NHXXH-J FE180/ E90 3x240 RM 0,6/1KV	0,0754	551	6264	8900	57	500	orange

* Load factor 1,0 at 30° C

NHXXH FE180/E90



HALLEY CABLES

NHXXH FE180/E90

Fire Resistant, Flame Retardant - Halogen Free, Power Cable, With Insulation Integrity FE180 and Circuit Integrity E90, 0.6/1 kV.

www.halleycables.com

Code	Conductor Resistance Ω /km	Ampacity * (in air) Trefoil A	CU rate kg/km	WEIGHT kg/km	Outer diameter \varnothing	Length/drum (m)	Colour
NHXXH-J FE180/ E90 3X25+16 RM 0,6/1KV	0,727/1,15	130	781	1400	26	1000	orange
NHXXH-J FE180/ E90 3X35+16 RM 0,6/1KV	0,524/1,15	160	1027	1740	27	1000	orange
NHXXH-J FE180/ E90 3X50+25 RM 0,6/1KV	0,387/0,727	195	1436	2300	31	1000	orange
NHXXH-J FE180/ E90 3X70+35 RM 0,6/1KV	0,268/0,524	247	2046	3200	35	1000	orange
NHXXH-J FE180/ E90 3X95+50 RM 0,6/1KV	0,193/0,387	305	2837	4200	40	1000	orange
NHXXH-J FE180/ E90 3X120+70 RM 0,6/1KV	0,153/0,268	355	3676	5300	44	500	orange
NHXXH-J FE180/ E90 3X150+70 RM 0,6/1KV	0,124/0,268	407	4351	6375	48	500	orange
NHXXH-J FE180/ E90 3X185+95 RM 0,6/1KV	0,0991/0,193	469	5538	8000	53	500	orange
NHXXH-J FE180/ E90 3X240+120 RM 0,6/1KV	0,0754/0,153	551	7295	10200	60	350	orange
NHXXH-J FE180/ E90 4X1,5 RE 0,6/1KV	12,1	24	52	204	12	1000	orange
NHXXH-J FE180/ E90 4X2,5 RE 0,6/1KV	7,41	32	84	255	13	1000	orange
NHXXH-J FE180/ E90 4X4 RE 0,6/1KV	4,61	42	136	335	15	1000	orange
NHXXH-J FE180/ E90 4X6 RE 0,6/1KV	3,08	53	204	430	16	1000	orange
NHXXH-J FE180/ E90 4X10 RM 0,6/1KV	1,83	73	344	655	19	1000	orange
NHXXH-J FE180/ E90 4X16 RM 0,6/1KV	1,15	96	544	930	21	1000	orange
NHXXH-J FE180/ E90 4X25 RM 0,6/1KV	0,727	130	860	1490	26	1000	orange
NHXXH-J FE180/ E90 4X35 RM 0,6/1KV	0,524	160	1188	1900	28	1000	orange
NHXXH-J FE180/ E90 4X50 RM 0,6/1KV	0,387	195	1628	2500	32	1000	orange
NHXXH-J FE180/ E90 4X70 RM 0,6/1KV	0,268	247	2332	3500	37	1000	orange
NHXXH-J FE180/ E90 4X95 RM 0,6/1KV	0,193	305	3240	4700	41	1000	orange
NHXXH-J FE180/ E90 4X120 RM 0,6/1KV	0,153	355	4124	5800	46	500	orange
NHXXH-J FE180/ E90 4X150 RM 0,6/1KV	0,124	407	5024	7100	51	500	orange
NHXXH-J FE180/ E90 4X185 RM 0,6/1KV	0,0991	469	6304	8800	56	500	orange
NHXXH-J FE180/ E90 4X240 RM 0,6/1KV	0,0754	551	8352	11400	63	350	orange
NHXXH-J FE180/ E90 5x1,5 RE 0,6/1KV	12,1	24	65	235	13	1000	orange
NHXXH-J FE180/ E90 5x2,5 RE 0,6/1KV	7,41	32	105	300	14	1000	orange
NHXXH-J FE180/ E90 5x4 RE 0,6/1KV	4,61	42	170	400	16	1000	orange
NHXXH-J FE180/ E90 5x6 RE 0,6/1KV	3,08	53	255	515	17	1000	orange
NHXXH-J FE180/ E90 5x10 RM 0,6/1KV	1,83	73	430	785	21	1000	orange
NHXXH-J FE180/ E90 5x16 RM 0,6/1KV	1,15	96	680	1100	23	1000	orange
NHXXH-J FE180/ E90 5x25 RM 0,6/1KV	0,727	130	1075	1800	29	1000	orange
NHXXH-J FE180/ E90 5x35 RM 0,6/1KV	0,524	160	1485	2300	31	1000	orange
NHXXH-J FE180/ E90 5x50 RM 0,6/1KV	0,387	195	2035	3100	35	1000	orange
NHXXH-J FE180/ E90 5x70 RM 0,6/1KV	0,268	247	2915	4300	41	1000	orange
NHXXH-J FE180/ E90 5x95 RM 0,6/1KV	0,193	305	4050	5750	46	500	orange
NHXXH-J FE180/ E90 5x120 RM 0,6/1KV	0,153	355	5155	7150	51	500	orange
NHXXH-J FE180/ E90 5x150 RM 0,6/1KV	0,124	407	6280	8700	56	500	orange
NHXXH-J FE180/ E90 5x185 RM 0,6/1KV	0,0991	469	7880	10750	62	350	orange
NHXXH-J FE180/ E90 5x240 RM 0,6/1KV	0,0754	551	10440	14000	70	350	orange
NHXXH-J FE180/ E90 7x1,5 RE 0,6/1KV	12,1	15,5	91	290	14	1000	orange
NHXXH-J FE180/ E90 7x2,5 RE 0,6/1KV	7,41	21	147	375	16	1000	orange
NHXXH-J FE180/ E90 10x1,5 RE 0,6/1KV	12,1	13	130	430	18	1000	orange
NHXXH-J FE180/ E90 10x2,5 RE 0,6/1KV	7,41	17,5	210	570	20	1000	orange
NHXXH-J FE180/ E90 12x1,5 RE 0,6/1KV	12,1	12,5	156	480	19	1000	orange
NHXXH-J FE180/ E90 12x2,5 RE 0,6/1KV	7,41	16,5	252	640	20	1000	orange
NHXXH-J FE180/ E90 19x1,5 RE 0,6/1KV	12,1	10,8	247	670	21	1000	orange
NHXXH-J FE180/ E90 19x2,5 RE 0,6/1KV	7,41	23	399	900	23	1000	orange
NHXXH-J FE180/ E90 24x1,5 RE 0,6/1KV	12,1	9,6	312	890	24	1000	orange
NHXXH-J FE180/ E90 24x2,5 RE 0,6/1KV	7,41	13	504	1150	27	1000	orange

* Load factor 1,0 at 30° C

NHXXH FE180/E90