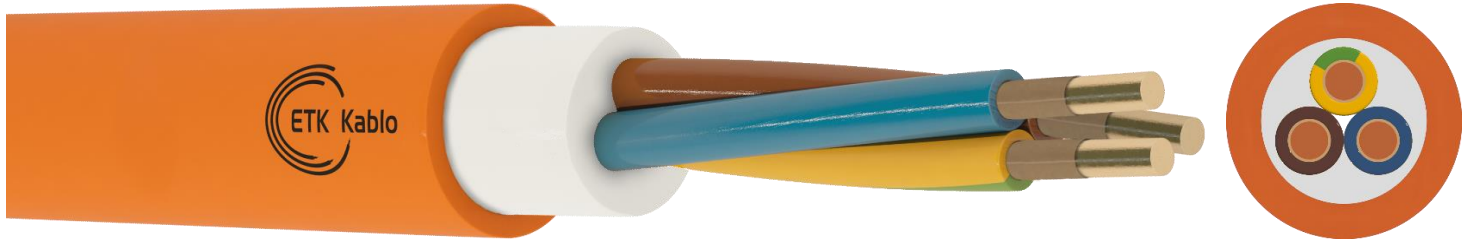


## Energy Cables

### Fire Resistant Cables

# NHXH 0.6/1kV FE180 E90



#### Application

- At machine and equipment that are required to continue its function during a fire.
- At ventilation systems which are connected to fire alarm system.
- At emergency power supplies.
- In places where human life, valuable materials and equipments need to be protected.

\*Images are for illustrative purpose only

#### Cable Construction

- 1 - Conductor : Class 1 solid or Class 2 stranded electrolytic copper conductor (IEC 60228, DIN VDE 0295, EN 60228)
- 2 - Wrapping : Each conductor wrapped with mica tape
- 3 - Insulation : Wrapped conductors insulated with VDE 0266 HX11 Cross-linked HFFR compound
- 4 - Stranding : Insulations are stranded into layers
- 5 - Filler : Halogen-free compound.
- 6 - Outer Jacket : UV resistant halogen-free outer jacket.

#### Technical Characteristics

Cross Section	Conductor Resistance $\Omega/\text{km}$ (20 °C)	Operating Voltage V DC	Test Voltage V DC (1 minute)
0.75 mm <sup>2</sup>	24.5	600/1000	4000
1.50 mm <sup>2</sup>	12.10	600/1000	4000
2.50 mm <sup>2</sup>	7.40	600/1000	4000
4.00 mm <sup>2</sup>	4.61	600/1000	4000
6.00 mm <sup>2</sup>	3.08	600/1000	4000
10.00 mm <sup>2</sup>	1.83	600/1000	4000
16.00 mm <sup>2</sup>	1.15	600/1000	4000
25.00 mm <sup>2</sup>	0.73	600/1000	4000
35.00 mm <sup>2</sup>	0.52	600/1000	4000

#### Mechanical Characteristics

Bending Radius	Temperature Range Operating
12xD mm	-40°C ~ +90°C

#### Standards

Smoke Density Test	Corrosive Gas Test	Halogen-free Test	Flame Retardancy Test	Flame Propagation Test
IEC 61034-2, VDE 0482-1034-2, BS EN 61034-2	IEC 60754-2, VDE 0482-267-2-3, BS EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, EN 50267-2-1, BS EN 50267-2-1	IEC 60332-1-2, VDE 0482-332-1-2, EN 60332-1-2	IEC 60332-3-24, VDE 0482-332-3-24, BS EN 60332-3-24
Circuit Integrity Test (FE180)		Cable System Circuit Integrity Test (E30 / E60 / E90)		
IEC 60331-23		DIN 4102-12		

## NHXH 0.6/1kV FE180 E90

Part Number (Class 1)	Conductor Count	Conductor Cross-Section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.670.01.mt.cX34.0.3.3 3.S1L.02	2	1.50	13.2	28.3	268	500/1000
3.670.01.mt.cX34.0.3.3 3.S1L.03	3	1.50	11.6	40.3	208	500/1000
3.670.01.mt.cX34.0.3.3 3.S1L.04	4	1.50	14.8	56.6	329	500/1000
3.670.01.mt.cX34.0.3.3 3.S1L.05	5	1.50	15.9	70.7	386	500/1000
3.670.01.mt.cX34.0.3.3 3.S1L.07	7	1.50	17	99	455	500/1000
3.670.01.mt.cX34.0.3.3 3.S1L.09	9	1.50	20.8	127.3	632	500/1000
3.670.01.mt.cX34.0.3.3 3.S1L.10	10	1.50	19.6	141.5	594	500/1000
3.670.01.mt.cX34.0.3.3 3.S1N.02	2	2.50	14	47.7	316	500/1000
3.670.01.mt.cX34.0.3.3 3.S1N.03	3	2.50	12.5	67.9	257	500/1000
3.670.01.mt.cX34.0.3.3 3.S1N.04	4	2.50	14.5	92.8	337	500/1000
3.670.01.mt.cX34.0.3.3 3.S1N.05	5	2.50	15.7	119.3	416	500/1000
3.670.01.mt.cX34.0.3.3 3.S1N.06	6	2.50	15.2	143.1	389	500/1000
3.670.01.mt.cX34.0.3.3 2.S1N.07	7	2.50	18.2	167	563	500/1000
3.670.01.mt.cX34.0.3.3 3.S1N.12	12	2.50	21.9	278.3	803	500/1000
3.670.01.mt.cX34.0.3.3 3.S1O.03	3	4.00	13.3	105.6	313	500/1000
3.670.01.mt.cX34.0.3.3 3.S1O.04	4	4.00	16.7	148.4	479	500/1000
3.670.01.mt.cX34.0.3.3 3.S1O.05	5	4.00	18	185.5	570	500/1000
3.670.01.mt.cX34.0.3.3 3.S1O.07	7	4.00	19.4	259.7	695	500/1000
3.670.01.mt.cX34.0.3.3 3.S1P.03	3	6.00	14.4	162.3	397	500/1000
3.670.01.mt.cX34.0.3.3 3.S1P.04	4	6.00	16.8	228	551	500/1000
3.670.01.mt.cX34.0.3.3 3.S1P.05	5	6.00	19.5	285	722	500/1000
3.670.01.mt.cX34.0.3.3 2.S1P.07	7	6.00	21	399	887	500/1000
3.670.01.mt.cX34.0.3.3 3.S1Q.03	3	10.00	16.1	274.8	552	500/1000
3.670.01.mt.cX34.0.3.3 3.S1Q.05	5	10.00	21.7	482.5	995	500/1000
Part Number (Class 2)	Conductor Count	Conductor Cross-Section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.670.01.mt.cX34.0.3.3 3.S2H.12	12	0.75	18	87.6	466	500/1000
3.670.01.mt.cX34.0.3.3 3.S2L.03	3	1.50	12	42.4	219	500/1000
3.670.01.mt.cX34.0.3.3 3.S2N.05	5	2.50	16.4	122.6	445	500/1000
3.670.01.mt.cX34.0.3.3 3.S2R.03	3	16.00	19.8	457.1	840	500/1000
3.670.01.mt.cX34.0.3.3 3.S2R.04	4	16.00	22.5	624.3	1114	500/1000
3.670.01.mt.cX34.0.3.3 3.S2R.05	5	16.00	24.6	780.3	1327	500/1000
3.670.01.mt.cX34.0.3.3 3.S2S.01	1	25.00	12.6	242	383	500/1000
3.670.01.mt.cX34.0.3.3 3.S2S.03	3	25.00	23.7	726	1251	500/1000
3.670.01.mt.cX34.0.3.3 3.S2S.04	4	25.00	26.2	968	1563	500/1000
3.670.01.mt.cX34.0.3.3 3.S2S.05	5	25.00	29	1210	1893	500/1000
3.670.01.mt.cX34.0.3.3 3.S2T.04	4	35.00	29.3	1355	2057	500/1000
3.670.01.mt.cX34.0.3.3 3.S2T.05	5	35.00	32.5	1693.7	2500	500/1000