



Product Service

CERTIFICATE

No. B 098200 0038 Rev. 00

Model(s): **NHXX FE180 E90**

Parameters:

Rated voltage: 600/1000V
 Conductors: Plain or tinned copper wires
 Fire barrier: Mica glass tape
 Insulation: Crosslinked LSZH compound
 Sheath: Thermoplastic LSZH compound
 Size: 1C x 1.5mm² to 1C x 630mm²
 2C x 1.5mm² to 5C x 120mm²

Fire resistance category: BS 6387: CWZ
 (Reference overall diameter ≤ 20mm);
 BS 8491: 120min
 (Reference overall diameter > 20mm)

Number of core/ Nominal cross section area of conductor (mm ²)	Class of conductor	Number and diameter of wire (n/mm)	Thickness of insulation (mm)	Thickness of outer sheath (mm)	Reference overall diameter (mm)	Conductor Resistance (Ω/km)	Fire resistance category
1 x 1.5	2	7×0.53	0.7	1.4	6.8	12.1	BS 6387: CWZ
1 x 2.5	2	7×0.67	0.7	1.4	7.2	7.41	BS 6387: CWZ
1 x 4	2	7×0.85	0.7	1.4	7.8	4.61	BS 6387: CWZ
1 x 6	2	7×1.04	0.7	1.4	8.3	3.08	BS 6387: CWZ
1 x 10	2	7×1.35	0.7	1.4	9.3	1.83	BS 6387: CWZ
1 x 16	2	7×1.70	0.7	1.4	10.3	1.15	BS 6387: CWZ
1 x 25	2	7×2.14	0.9	1.4	12.0	0.727	BS 6387: CWZ
1 x 35	2	7×2.52	0.9	1.4	13.2	0.524	BS 6387: CWZ
1 x 50	2	19×1.78	1.0	1.4	14.7	0.387	BS 6387: CWZ
1 x 70	2	19×2.14	1.1	1.4	16.7	0.268	BS 6387: CWZ
1 x 95	2	19×2.52	1.1	1.5	18.8	0.193	BS 6387: CWZ
1 x 120	2	37×2.03	1.2	1.5	20.6	0.153	BS 8491: 120min
1 x 150	2	37×2.25	1.4	1.6	22.8	0.124	BS 8491: 120min
1 x 185	2	37×2.52	1.6	1.6	25.0	0.0991	BS 8491: 120min
1 x 240	2	61×2.25	1.7	1.7	28.1	0.0754	BS 8491: 120min

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Number of core/ Nominal cross section area of conductor (mm ²)	Class of conductor	Number and diameter of wire (n/mm)	Thickness of insulation (mm)	Thickness of outer sheath (mm)	Reference overall diameter (mm)	Conductor Resistance (Ω/km)	Fire resistance category
3 x 4 a	2	7×0.85	0.7	1.8	14.3	4.61	BS 6387: CWZ
3 x 6 a	2	7×1.04	0.7	1.8	15.5	3.08	BS 6387: CWZ
3 x 10 a	2	7×1.35	0.7	1.8	17.5	1.83	BS 6387: CWZ
3 x 16 a	2	7×1.70	0.7	1.8	19.8	1.15	BS 6387: CWZ
3 x 25 a	2	7×2.14	0.9	1.8	23.5	0.727	BS 8491: 120min
3 x 35 a	2	7×2.52	0.9	1.8	26.0	0.524	BS 8491: 120min
3 x 50 a	2	19×1.78	1.0	1.8	29.3	0.387	BS 8491: 120min
3 x 70 a	2	19×2.14	1.1	1.9	33.8	0.268	BS 8491: 120min
3 x 95 a	2	19×2.52	1.1	2.0	38.3	0.193	BS 8491: 120min
3 x 120 a	2	37×2.03	1.2	2.1	42.4	0.153	BS 8491: 120min
3 x 25 b	2	7×2.14	0.9	1.8	20.7	0.727	BS 8491: 120min
3 x 35 b	2	7×2.52	0.9	1.8	23.3	0.524	BS 8491: 120min
3 x 50 b	2	10×2.52	1.0	1.8	25.9	0.387	BS 8491: 120min
3 x 70 b	2	14×2.52	1.1	1.9	29.8	0.268	BS 8491: 120min
3 x 95 b	2	19×2.52	1.1	2.0	33.2	0.193	BS 8491: 120min
3 x 120 b	2	24×2.52	1.2	2.1	36.0	0.153	BS 8491: 120min
4 x 1.5 a	2	7×0.53	0.7	1.8	13.2	12.1	BS 6387: CWZ
4 x 2.5 a	2	7×0.67	0.7	1.8	14.2	7.41	BS 6387: CWZ
4 x 4 a	2	7×0.85	0.7	1.8	15.5	4.61	BS 6387: CWZ
4 x 6 a	2	7×1.04	0.7	1.8	16.9	3.08	BS 6387: CWZ
4 x 10 a	2	7×1.35	0.7	1.8	19.2	1.83	BS 6387: CWZ
4 x 16 a	2	7×1.70	0.7	1.8	21.7	1.15	BS 8491: 120min
4 x 25 a	2	7×2.14	0.9	1.8	25.8	0.727	BS 8491: 120min

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Number of core/ Nominal cross section area of conductor (mm ²)	Class of conductor	Number and diameter of wire (n/mm)	Thickness of insulation (mm)	Thickness of outer sheath (mm)	Reference overall diameter (mm)	Conductor Resistance (Ω/km)	Fire resistance category
4 x 35 a	2	7×2.52	0.9	1.8	28.6	0.524	BS 8491: 120min
4 x 50 a	2	19×1.78	1.0	1.8	32.3	0.387	BS 8491: 120min
4 x 70 a	2	19×2.14	1.1	2.0	37.5	0.268	BS 8491: 120min
4 x 95 a	2	19×2.52	1.1	2.1	42.3	0.193	BS 8491: 120min
4 x 120 a	2	37×2.03	1.2	2.3	47.1	0.153	BS 8491: 120min
4 x 25 b	2	7×2.14	0.9	1.8	23.3	0.727	BS 8491: 120min
4 x 35 b	2	7×2.52	0.9	1.8	25.9	0.524	BS 8491: 120min
4 x 50 b	2	10×2.52	1.0	1.8	29.4	0.387	BS 8491: 120min
4 x 70 b	2	14×2.52	1.1	2.0	33.5	0.268	BS 8491: 120min
4 x 95 b	2	19×2.52	1.1	2.1	36.9	0.193	BS 8491: 120min
4 x 120 b	2	24×2.52	1.2	2.3	40.9	0.153	BS 8491: 120min
5 x 1.5 a	2	7×0.53	0.7	1.8	13.5	12.1	BS 6387: CWZ
5 x 2.5 a	2	7×0.67	0.7	1.8	14.5	7.41	BS 6387: CWZ
5 x 4 a	2	7×0.85	0.7	1.8	16.9	4.61	BS 6387: CWZ
5 x 6 a	2	7×1.04	0.7	1.8	18.4	3.08	BS 6387: CWZ
5 x 10 a	2	7×1.35	0.7	1.8	20.2	1.83	BS 8491: 120min
5 x 16 a	2	7×1.70	0.7	1.8	24.3	1.15	BS 8491: 120min
5 x 25 a	2	7×2.14	0.9	1.8	27.3	0.727	BS 8491: 120min
5 x 35 a	2	7×2.52	0.9	1.8	30.9	0.524	BS 8491: 120min
5 x 50 a	2	19×1.78	1.0	1.9	34.6	0.387	BS 8491: 120min
5 x 70 a	2	19×2.14	1.1	2.1	38.4	0.268	BS 8491: 120min
5 x 95 a	2	19×2.52	1.1	2.2	43.7	0.193	BS 8491: 120min
5 x 120 a	2	37×2.03	1.2	2.4	46.9	0.153	BS 8491: 120min

^a circular or compacted circular stranded conductors (class 2).
^b shaped stranded conductor (class 2).

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