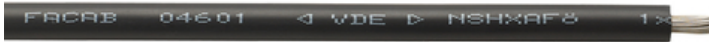
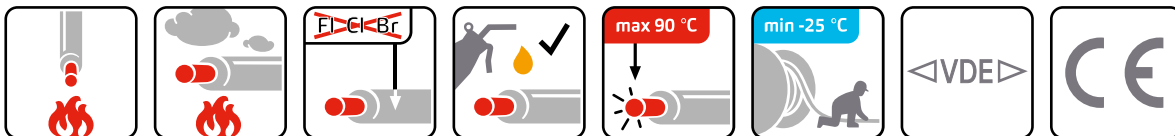


# FRNC rubber cable NSHXAFÖ acc. to VDE 0250 T. 606



<b>conductor material:</b>	tinned copper
<b>conductor construction:</b>	fine stranded, class 5
<b>insulation:</b>	rubber (EPR) 3GI3, halogen-free
<b>sheathing material:</b>	FRNC compound HM3
<b>flame retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>smoke density:</b>	DIN EN 61034/IEC 61034
<b>halogen free:</b>	DIN EN 50267/IEC 60754
<b>oil resistant:</b>	EN 60811-2-1
<b>maximum temperature at conductor:</b>	90 °C
<b>max. operating temperature, fixed:</b>	-40 - +70 °C
<b>temperature, moved/during installation:</b>	-25 - +70 °C
<b>nominal voltage U<sub>0</sub>:</b>	1,8 kV
<b>nominal voltage U:</b>	3 kV
<b>test voltage:</b>	6 kV

**Application:** This insulated wire is designed for application in busses and railborn vehicles. If used in distribution or switching appliances up to 1000 V, it is considered to be short circuit proof. The cable is halogen-free, flame-retardant and resistant against most oils and grease.



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics NSHXAFÖ

p/n	part name	R <sub>I</sub> [Ω/km]	I <sub>bl</sub> [A]	R <sub>bb</sub> [mm]	R <sub>bv</sub> [mm]	D <sub>A</sub> [mm]	F <sub>ZV</sub> [N]	Cu [kg/km]	G [kg/km]
050476	NSHXAFÖE 01X1,5 1,8/3 kV SW	13,3	30	35	28	6	21	14,4	60
050477	NSHXAFÖE 01X2,5 1,8/3 kV SW	7,98	41	37,5	30	6,5	41	24	70
050379	NSHXAFÖE 01X4 1,8/3 kV SW	4,95	55	45	36	7	60	38,4	85
050380	NSHXAFÖE 01X6 1,8/3 kV SW	3,3	70	47,5	38	7,5	90	57,6	110
050381	NSHXAFÖE 01X10 1,8/3 kV SW	1,91	98	55	44	9	150	96	160
050382	NSHXAFÖE 01X16 1,8/3 kV SW	1,21	132	65	52	10,5	240	153,6	240
050383	NSHXAFÖE 01X25 1,8/3 kV SW	0,795	176	75	60	12,5	375	240	365

p/n	part name	R <sub>l</sub> [Ω/km]	I <sub>bl</sub> [A]	R <sub>bb</sub> [mm]	R <sub>bv</sub> [mm]	D <sub>A</sub> [mm]	F <sub>zv</sub> [N]	Cu [kg/km]	G [kg/km]
050376	NSHXAF0E 01X35 1,8/3 kV SW	0,554	219	82,5	66	13,5	525	336	494
050377	NSHXAF0E 01X50 1,8/3 kV SW	0,386	276	90	72	15,5	750	480	656
050353	NSHXAF0E 01X70 1,8/3 kV SW	0,272	347	102,5	82	17,5	1050	672	880
050356	NSHXAF0E 01X95 1,8/3 kV SW	0,206	416	120	96	20,5	1425	912	1090
050355	NSHXAF0E 01X120 1,8/3 kV SW	0,161	488	130	104	21,5	1800	1152	1340
050384	NSHXAF0E 01X150 1,8/3 kV SW	0,129	566	140	112	23,5	2250	1440	1640
050385	NSHXAF0E 01X185 1,8/3 kV SW	0,106	644	155	124	25,5	2775	1776	2160
050386	NSHXAF0E 01X240 1,8/3 kV SW	0,0801	775	172,5	138	28	3600	2304	2570
050654	NSHXAF0E 01X300 1,8/3 kV SW	0,0641	898	190	152	31,5	4500	2890	3470
050892	(N)SHXAF0E 01X500 1,8/3 kV SW	0,0384	1250	210,5	168	43,5	7500	4800	5860

RI	conductor resistance
Ibl	ampacity (in air) (30°C)
Rbb	bending radius, moved application
Rbv	bending radius, fixed installation
DA	outer diameter
Fzv	tensile strength (during installation)
Cu	copper weight (ger)
G	weight