

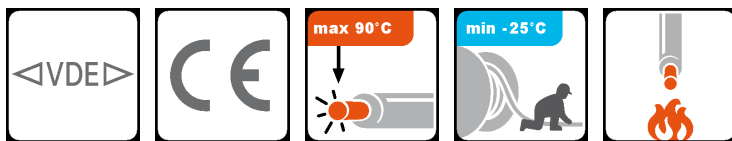
Rubber insulated wire NSGAFÖU acc. to VDE 0250 T. 602



conductor material:	tinned copper
conductor construction:	fine stranded, class 5
insulation:	rubber (EPR) 3GI3, halogen-free
sheathing material:	rubber (CR) 5GM5
flame retardant:	VDE 0482-332-1-2/IEC 60332-1
ozone resistant:	yes
maximum temperature at conductor:	90 °C
max. operating temperature, fixed:	-40 - +90 °C
temperature, moved/during installation:	-25 - +90 °C

	<i>NSGAFÖU 1,8/3 kV</i>	<i>NSGAFÖU 3,6/6 kV</i>
nominal voltage U₀:	1,8 kV	3,6 kV
nominal voltage U:	3,6 kV	6 kV
test voltage:	6 kV	11 kV

Application: This wire is designed for application in dry rooms, busses and railborn vehicles. If used in distribution or switching appliances the wire is considered to be short circuit proof. It is 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 NSGAFÖU 1,8/3 kV

p/n	part name	D _I [mm]	R _I [Ω/km]	I _{bl} [A]	I _k [kA]	R _{bb} [mm]	R _{bv} [mm]	D _A [mm]	F _{Zv} [N]	E _v [kWh/m]	Cu [kg/km]	G [kg]
050194	NSGAFOEU 01X1,5 1,8/3 kV SW	1,8	13,7	30	0,183	27,5	22	5,5	23	0,25	14,4	60
050178	NSGAFOEU 01X2,5 1,8/3 kV SW	2,4	8,21	41	0,305	29,5	23,6	5,9	38	0,28	24	70
050159	NSGAFOEU 01X4 1,8/3 kV SW	3	5,09	55	0,488	32	25,6	6,4	60	0,32	38	90
050165	NSGAFOEU 01X6 1,8/3 kV SW	3,9	3,39	70	0,732	35	28	7	90	0,35	58	120
050172	NSGAFOEU 01X10 1,8/3 kV SW	5,1	1,95	98	1,22	42	33,6	8,4	150	0,5	96	180
050183	NSGAFOEU 01X16 1,8/3 kV SW	6,3	1,24	132	1,95	46	36,8	9,2	240	0,65	154	250
050184	NSGAFOEU 01X25 1,8/3 kV SW	7,8	0,795	176	3,05	57,5	46	11,5	375	0,9	240	390
050163	NSGAFOEU 01X35 1,8/3 kV SW	9,2	0,565	218	4,27	64	51,2	12,8	525	1	336	470
050164	NSGAFOEU 01X50 1,8/3 kV SW	11	0,393	276	6,1	71,5	57,2	14,3	750	1,1	480	625
050182	NSGAFOEU 01X70 1,8/3 kV SW	13,1	0,277	347	8,54	80	64	16	1050	1,3	672	880
050208	NSGAFOEU 01X95 1,8/3 kV SW	15,1	0,21	416	11,6	91	72,8	18,2	1425	1,7	912	1190

p/n	part name	D _l [mm]	R _l [Ω/km]	I _{bl} [A]	I _k [kA]	R _{bb} [mm]	R _{bv} [mm]	D _A [mm]	F _{zv} [N]	E _v [kWh/m]	Cu [kg/km]	G [kg]
050244	NSGAFOEU 01X120 1,8/3 kV SW	17	0,164	488	14,6	99,5	79,6	19,9	1800	1,9	1152	1430
050241	NSGAFOEU 01X150 1,8/3 kV SW	19	0,132	566	18,3	109	87,2	21,8	2250	2,2	1440	1750
050245	NSGAFOEU 01X185 1,8/3 kV SW	21	0,108	644	22,6	119	95,2	23,8	2775	2,6	1776	2160
050246	NSGAFOEU 01X240 1,8/3 kV SW	24	0,0817	775	29,3	133,5	106,8	26,7	3600	3,1	2304	2640
050247	NSGAFOEU 01X300 1,8/3 kV SW	27	0,0654	898	33,6	190	152	38	4500	3,6	2880	3178
050471	NSGAFOEU 01X400 1,8/3 kV SW	31	0,0486	1060	48,8	202	162	40,5	6000		3840	4200
050472	NSGAFOEU 01X500 1,8/3 kV SW	35	0,0384	1250	61	210	168	42	7500		4800	5500

I_{bl} - current rating for installation in free air with distance to wall and next cable > D acc. to VDE 0298-4 table 15 col. 2.

Table: Technical characteristics NSGAFÖU 3,6/6 kV

p/n	part name	D _l [mm]	R _l [Ω/km]	I _{bl} [A]	R _{bb} [mm]	R _{bv} [mm]	D _A [mm]	F _{zv} [N]	Cu [kg/km]	G [kg]
051081	NSGAFOEU 01X150 3,6/6 kV RT	19	0,132	546	305	183	30,5	2250	1440	1690
050856	NSGAFOEU 01X185 3,6/6 kV RT	21	0,108	622	331	199	33,1	2775	1776	2225

I_{bl} - current rating for installation in free air with distance to wall and next cable > D acc. to VDE 0298-4 table 15 col. 2.

DI	diameter of conductor
RI	conductor resistance
I _{bl}	ampacity (in air)
I _k	short circuit current (1 s)
R _{bb}	bending radius, moved application
R _{bv}	bending radius, fixed installation
D _A	outer diameter
F _{zv}	tensile strength (during installation)
E _v	combustion energy
Cu	copper
G	weight