

FRNC rubber cable NSHXAFOE



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

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %:
CAS 85535-85-9

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0250 T. 606
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Sheathing material:	FRNC-compound HM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-25 - +70 °C



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.

NSHXAFOE 1.8/3 kV

Nominal voltage U_o: 1.8 kV

Nominal voltage U: 3 kV

Test voltage: 6 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	R _{bv} [mm]	R _{bb} [mm]	Ø [mm]	F _{zv} [N]	Cu	G [kg]
050476	1X1.5	13.3	30	0.21	36	60	6	21	14.4	60
050477	1X2.5	7.98	41	0.35	39	65	6.5	41	24	70
050379	1X4	4.95	55	0.57	42	70	7	60	38.4	85
050380	1X6	3.3	70	0.85	45	75	7.5	90	57.6	110
050381	1X10	1.91	98	1.43	54	90	9	150	96	160
050382	1X16	1.21	132	2.28	63	105	10.5	240	153.6	240
050383	1X25	0.795	176	3.57	75	125	12.5	375	240	365
050376	1X35	0.554	219	5	81	135	13.5	525	336	494
050377	1X50	0.386	276	7.15	93	155	15.5	750	480	656
050353	1X70	0.272	347	10.01	105	175	17.5	1050	672	880
050356	1X95	0.206	416	13.58	123	205	20.5	1425	912	1090
050355	1X120	0.161	488	17.16	129	215	21.5	1800	1152	1340
050384	1X150	0.129	566	21.45	141	235	23.5	2250	1440	1640
050385	1X185	0.106	644	26.45	153	255	25.5	2775	1776	2160
050386	1X240	0.0801	775	34.32	168	280	28	3600	2304	2570
050654	1X300	0.0641	898	42.9	189	315	31.5	4500	2890	3470
050892	1X500 (with reference to)	0.0384	1250	71.5	261	435	43.5	7500	4800	5860

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
I _k	Short-circuit current (1 s)
R _{bv}	Bending radius, fixed installation
R _{bb}	Bending radius, moving application
Ø	outer diameter approx.
F _{zv}	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000