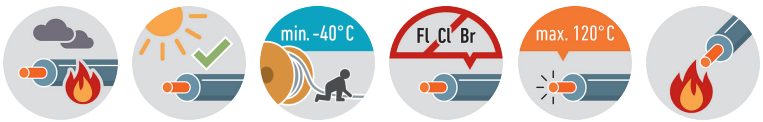
FRNC flexible cable
NHXSGAFHXOE

Application: These cables are intended for use in railway rolling stock as fixed wiring, or connection where limited flexing in operation is encountered, they may be used both in- and outdoors, e.g. flexible between car floor and bogies. They are also usable for unfused connections in switchgear and distribution boards up to 1000 V (DIN VDE 0100-520 and DIN VDE 0660-500) and in accumulator circuits (DIN 5510 part 5).

Construction and technical data:

Standard:	EN 50264-3-1
Conductor material:	tinned copper
Conductor construction:	Class 5 = fine stranded - DIN EN IEC 60228 (VDE 0295)
Insulation:	polyurethane elastomer EI 107
Sheathing material:	cross-linked elastomer EM 104
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	DIN EN 60811-404 / VDE 0473-811-404 / IEC 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	120 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-40 - +90 °C
Min. bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	10 x Ø



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.

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(N)HXSGAFHXoe 1.8/3 kV

Nominal voltage Uo: 1.8 kV

Nominal voltage U: 3 kV

Maximum permitted operating voltage in three-phase systems: 3.6 kV

Nominal voltage (DC): 2,7/5,4 kV

Test voltage: 6.5 kV

part no.	part name	Rl [Ohm/km]	Ø max. [mm]	Cu	G [kg]
054427	1x150 BK	0.132	24.5	1440	1636

(N)HXSGAFHXoe 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Nominal voltage (DC): 5,4/10,8 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
053158	1X95 BK	0.21	20.5	912	1077
051307	1X150 BK	0.132	25.9	1440	1723
051531	1X150 YE	0.132	26.9	1440	1671
051659	1X240 RD	0.0817	32	2304	2519

Rl	Conductor resistance
Ø max.	outer diameter max.
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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