



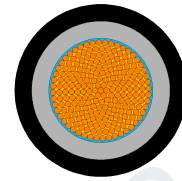
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

NSHXAFO 1.8/3 kV

Highly flexible single-core LSZH rubber power cable



APPLICATION

Highly flexible power cable recommended for use on board trains, underground coaches and trams. The low smoke zero halogen insulation and sheath are suitable for installations where fire, smoke emission and toxic fumes may create a hazard. The cable is flame retardant and oil resistant.

CONSTRUCTION

Component	Description
Conductors	Class 5 flexible tinned copper conductor
Insulation	3GI3 quality rubber, EPR base
Sheath	Flame-retardant, low-smoke, halogen-free, oil-resistant rubber HM3
Sheath Colour	Black

CHARACTERISTICS

- Highly flexible power cables for use on board trains, underground coaches and trams.
- Low smoke zero halogen insulation and sheath for installations where fire, smoke emission and toxic fumes may create a potential hazard.
- Flame retardant according to IEC/EN 60332-1-2.
- Oil resistant and suitable for demanding transport applications.
- Also available with voltage rating 3.6/6 kV.
- RoHS Directive 2015/65/EU and REACH Regulation EC 1907/2006 compliant.

KEY PARAMETERS

Key Parameter	Value
Temperature, fixed	-35 °C to +90 °C
Temperature, flexed	-15 °C to +90 °C
Bending radius, fixed	4 x overall diameter
Bending radius, flexed	5 x overall diameter
Standard	VDE 0250 Part 606

STANDARDS AND COMPLIANCE

VDE 0250 Part 606

IEC/EN 60332-1-2 flame retardant

RoHS 2015/65/EU and REACH EC 1907/2006 compliant

TECHNICAL DATA

DIMENSIONS AND ELECTRICAL CHARACTERISTICS

Values are technical parameters only. Cable dimensions may vary due to manufacturing tolerances.

Nominal cross sectional area mm ²	No. of cores	Minimum overall diameter mm	Nominal overall diameter mm	Nominal weight kg/km	Current carrying capacity in air A
1.5	1	5.6	6.5	50	30
2.5	1	6.0	7.0	70	41
4	1	6.5	7.5	80	55
6	1	7.1	8.0	100	70
10	1	8.3	9.0	160	98
16	1	9.3	11.5	220	132
25	1	11.4	14.0	330	176
35	1	12.6	15.5	440	218
50	1	14.2	17.5	580	276
70	1	15.9	19.5	780	347
95	1	18.5	22.5	1100	416
120	1	20.3	25.0	1300	488
150	1	22.3	27.5	1600	566
185	1	24.2	30.5	1900	644
240	1	27.1	33.5	2500	775
300	1	30.2	37.5	3200	898

RATINGS

- Rated voltage U₀/U: 1.8/3 kV.
- Conductor: class 5 flexible tinned copper.
- Insulation and sheath: rubber.
- Temperature range: fixed -35 °C to +90 °C; flexed -15 °C to +90 °C.
- Minimum bending radius: fixed 4 x overall diameter; flexed 5 x overall diameter.
- Flame retardant according to IEC/EN 60332-1-2.

CERTIFICATIONS



TEBAOFLEX CABLE