

TSLF 72 - 170kV singel core

TSLF 72 kV 1x800A

Metal screened cable with aluminium sheath and outer semiconducting layer

DESCRIPTION

User benefits:

Diffusion free high voltage cable

Avoids growth of watertrees in the XLPE insulation and increases the lifetime of the cable.

Sheath integrity may be tested while on drum, before backfilling, in plastic pipes etc.

Meter marks

Screen section: Value given is the physical cross section of the copper wires in the screen.

Usage: Indoor, Underground, Outdoors

Intended for high voltage energy distribution

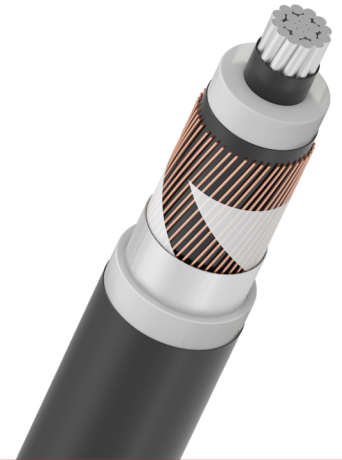
Fire properties:

Halogenfree

Cable marking:

NEXANS NS TSLF kV 1 x mm²/mm² MONTH YEAR, metermarks

Lifemark



STANDARDS

International IEC 60840



Radial waterproof
Yes



Halogen free
Yes



Conductor flexibility
Stranded class 2



Rated Voltage U₀/U_m
(Um)
36/66 (72,5) kV



Minimum repeated
bending diameter
1480 mm



Maximum operating
temperature
90 °C



Minimum
installation
temperature
-20 °C



Bending factor
when laying
10 (xD)

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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CHARACTERISTICS

Construction characteristics

Conductor material	Aluminum
Conductor shape	Circular compacted
Material used for longitudinal water tightness	Swelling powder
Material of the inner semi-conductor	Extruded
Insulation	Extruded XLPE
Material of the external semi-conductor	Extruded
Screen	Copper wire
Radial waterproof	Yes
Outer sheath	MDPE
Outer conductive layer	Yes
Halogen free	Yes
Conductor flexibility	Stranded class 2

Dimensional characteristics

Conductor cross-section	800 mm ²
Conductor diameter	34.7 mm
Nominal insulation thickness	12.0 mm
Diameter over insulation	61.5 mm
Earth conductor cross section	- mm ²
Screen section	50 mm ²
Average sheath thickness	3.4 mm
Nominal outer diameter	74.0 mm
Approximate weight	5.56 kg/m
Number of cores	1

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.0367 Ohm/km
Phase reactance 50 Hz - trefoil formation	0.11 Ohm/km
Phase reactance 50 Hz - flat formation	0.16 Ohm/km
Maximum operating voltage	72 kV
Perm. current rating buried 15°C - flat formation	755 A
Perm. current rating buried 15°C - trefoil formation	810 A
Perm. current rating in air 25°C - flat formation	1040 A
Perm. current rating in air 25°C - trefoil formation	1065 A
Permissible short circuit current conductor 1s	72 kA
A.C. Conductor resist. 50Hz and at 90 °C	- Ohm/km
Nominal phase capacitance	0.26 µF / km
Rated Voltage U _o /U (U _m)	36/66 (72,5) kV

Mechanical characteristics

Maximum Pulling Tension	24 kN
Minimum repeated bending diameter	1480 mm

Usage characteristics

Maximum operating temperature	90 °C
Short-circuit max. conductor temperature	250 °C

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Usage characteristics

Minimum installation temperature	-20 °C
Bending factor when laying	10 (xD)
Length	- m