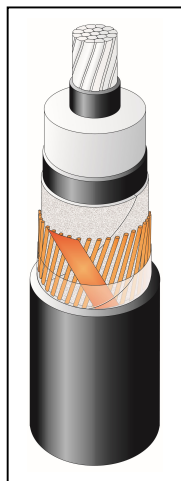


TECHNICAL SPECIFICATION **For Longitudinally and Radially Sealed Single Core Cables** **type NA2XS(FL)2Y / XRUHAKXS 1x150RM/25 mm² U₀/U(U_m) = 12/20(24) kV** **acc. to DIN VDE 0276-620:2010** **/ G-141664 /**

CONSTRUCTION

- ☐ Round, stranded and compacted conductor - Class 2
- ☐ Extruded semi-conductive conductor screen
- ☐ Insulation XLPE
- ☐ Extruded semi-conductive insulation screen
- ☐ Semi-conductive swelling tape(s)
- ☐ Metallic screen
- ☐ Semi-conductive swelling tape(s)
- ☐ Longitudinally aluminium foil
- ☐ Outer sheath



APPLICATION

- ☐ Laying in ground
- ☐ Laying in air
- ☐ Laying in ducts

TEMPERATURE

Conductor

- ☐ Continuous operation - **90 °C**
- ☐ Short circuit - **250 °C**
(duration max 5 s)

Metallic screen

- ☐ Short circuit - **350 °C**
(duration max 5 s)

The picture is informative only – not in scale

DESCRIPTION	UNIT	DETAILS ^{/1}
CONSTRUCTION DATA		
<u>Conductor</u> <ul style="list-style-type: none"> <input type="checkbox"/> Material <input type="checkbox"/> Nominal cross sectional area <input type="checkbox"/> Number of wires <input type="checkbox"/> Conductor diameter <input type="checkbox"/> Longitudinally sealed <input type="checkbox"/> Wrapping over conductor – Material 	- mm ² No mm - -	Aluminium 150 acc. to EN 60228 acc. to EN 60228 No No
<u>Conductor screen</u> ^{/2} <ul style="list-style-type: none"> <input type="checkbox"/> Material <input type="checkbox"/> Minimum at point radial thickness 	- mm	semi-cond. polyethylene 0.30
<u>Insulation</u> ^{/2} <ul style="list-style-type: none"> <input type="checkbox"/> Material <input type="checkbox"/> Minimum average / min. at point radial thickness <input type="checkbox"/> Diameter over insulation 	- mm mm	XLPE 5.5 / 4.85 26.4 (requirement 25.8 ÷ 28.5 mm)
<u>Insulation screen</u> ^{/2} <ul style="list-style-type: none"> <input type="checkbox"/> Type <input type="checkbox"/> Material <input type="checkbox"/> Maximum / minimum at point radial thickness 	- - mm	FULL BONDED semi-cond. polyethylene 0.60 / 0.30
<u>Metallic screen</u> <ul style="list-style-type: none"> <input type="checkbox"/> Wrapping under Metallic Screen – Material <input type="checkbox"/> Metallic screen - Material <input type="checkbox"/> Diameter over metallic screen <input type="checkbox"/> Cross sectional area <input type="checkbox"/> Wrapping over Metallic Screen – Material 	- - mm mm ² -	semi - cond. swelling tape(s) copper (wires and tape – equalizing spiral) 30 25 semi - cond. swelling tape(s)
<u>Radial sealing</u> <ul style="list-style-type: none"> <input type="checkbox"/> Material <input type="checkbox"/> Diameter over radial sealing (De) 	- mm	Al tape with PE copolymer 30.8

^{/1} - Diameters are calculated values and subject to manufacturing tolerances

^{/2} - Triple extrusion processes, Dry curing and cooling.

DESCRIPTION	UNIT	DETAILS ^{/1}
Sheath		
<input type="checkbox"/> Material	-	HDPE – colour BLACK
<input type="checkbox"/> Nominal / min. at point radial thickness	mm	2.5 / 2.03
<input type="checkbox"/> Diameter over sheath - completed cable (D_k)	mm	≈ 35.4
Weight of complete cable (approx.)	kg / km	≈ 1 350
ELECTRICAL DATA at 50Hz		
SHORT CIRCUIT CURRENTS		
Max Short Circuit Capacity:		
<input type="checkbox"/> conductor : 90 → 250 °C	kA / 1 sec	14.1
<input type="checkbox"/> metallic screen: → 350 °C	kA / 1 sec	5.3
AMPACITY (I_n) ^{/3} BOTH-ENDS BONDING (BE)		
GROUND		
<input type="checkbox"/> flat formation	A	352
<input type="checkbox"/> trefoil formation	A	319
AIR		
<input type="checkbox"/> flat formation	A	432
<input type="checkbox"/> trefoil formation	A	366
MECHANICAL DATA		
Recommended min. bending radius for laying	m	25 * D_e * 10⁻³
Recommended permissible bending radius at final installation	m	22 * D_e * 10⁻³
Maximum Cable Pulling Force: ^{/4}	kN	30 * (No * cross sectional) conductor area * 10⁻³
Lowest recommended temperature during laying:	°C	≥ minus 20
DELIVERY DATA		
Maximum length per TF KABLE drum / Diameter (Type) of wooden drum	m / m	1000 / 2.0 (20A) 1500 / 2.2 (22) 2000 / 2.4 (24)

Prepared by: Bogusława Składanowska – 2020-07-08

^{/3} - Current rating guideline

GROUND :

- ☐ Ground temperature 20 °C
- ☐ Laying depth 0.7 m
- ☐ Ground thermal resistivity 1.0 K·m/W / 2.5 K·m/W
- ☐ Loading 0.7

AIR (shaded cables) :

- ☐ Air temperature 30 °C
- ☐ Loading 1.0

^{/4} - Cable pulling forces by its conductor