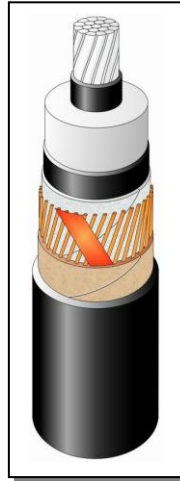


**TECHNICAL SPECIFICATION**  
**for Longitudinally Sealed Single Core Cables**  
**type (N)A2XS(F)2Y 1 x 240RM/25 mm<sup>2</sup> U<sub>o</sub>/U(U<sub>m</sub>) = 20/35(41)kV**  
**acc. to IEC 60502-2+ Customer Requirements**  
**/AK22047\_ /**

**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
- Non-conductive swelling tape(s)
- 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 <sup>/1</sup>
<b>CONSTRUCTION DATA</b>		
<b>Conductor</b>		
<input type="checkbox"/> Material	-	<b>Aluminium</b>
<input type="checkbox"/> Nominal cross sectional area	mm <sup>2</sup>	<b>240</b>
<input type="checkbox"/> Number of wires	No	acc. to EN 60228
<input type="checkbox"/> Conductor diameter	mm	acc. to EN 60228
<input type="checkbox"/> Longitudinally sealed	-	<b>No</b>
<b>Conductor screen <sup>/2</sup></b>		
<input type="checkbox"/> Material	-	semi-cond. polyethylene
<input type="checkbox"/> Minimum at point radial thickness	mm	0.30
<b>Insulation <sup>/3</sup></b>		
<input type="checkbox"/> Material	-	<b>XLPE</b>
<input type="checkbox"/> <b>Nominal</b> / minimum at point radial thickness	mm	<b>8.8 / 7.82</b>
<input type="checkbox"/> Diameter over insulation	mm	35.5
<b>Insulation screen <sup>/3</sup></b>		
<input type="checkbox"/> Type	-	<b>FULL BONDED</b>
<input type="checkbox"/> Material	-	semi-cond. polyethylene
<input type="checkbox"/> Minimum at point radial thickness	mm	0.30
<b>Metallic screen</b>		
<input type="checkbox"/> Wrapping under Metallic Screen – Material	-	semi - cond. water blocking tape(s)
<input type="checkbox"/> Metallic screen - Material	-	copper (wires and equalizing tape)
<input type="checkbox"/> Diameter over metallic screen	mm	39.1
<input type="checkbox"/> <b>Cross sectional area</b>	mm <sup>2</sup>	<b>25</b>
<input type="checkbox"/> Wrapping over Metallic Screen – Material	-	non - cond. water blocking tape(s)

<sup>/1</sup> - Diameters are calculated values and subject to manufacturing tolerances

<sup>/2</sup> - Triple extrusion processes, Dry curing and cooling.

DESCRIPTION	UNIT	DETAILS <sup>/1</sup>
<b>Outer sheath</b>		
<input type="checkbox"/> Material	-	<b>HDPE – colour BLACK</b>
<input type="checkbox"/> <b>Nominal / minimum</b> at point radial thickness	mm	<b>2.4 / 1.72</b>
<input type="checkbox"/> Diameter over sheath ( <b>D<sub>k</sub></b> )	mm	≈ 44.0
Weight of complete cable (approx.)	kg / km	≈ 1 940
<b>SHORT CIRCUIT CURRENTS</b>		
Max Short Circuit Capacity:		
<input type="checkbox"/> conductor: <b>90 → 250 °C</b>	kA / 1 sec	<b>22.7</b>
<input type="checkbox"/> metallic screen: <b>→ 350 °C</b>	kA / 1 sec	<b>5.3</b>
<b>MECHANICAL DATA</b>		
Recommended min. bending radius for laying	m	<b>15 * D<sub>k</sub> * 10<sup>-3</sup></b>
Recommended permissible bending radius at final installation	m	<b>12 * D<sub>k</sub> * 10<sup>-3</sup></b>
Maximum Cable Pulling Force: <sup>/3</sup>	kN	<b>30 * (No * cross sectional) conductor area * 10<sup>-3</sup></b>
Lowest recommended temperature during laying:	°C	<b>≥ minus 20</b>
<b>DELIVERY DATA</b>		
Length per TFKABLE drum / Diameter ( <b>Type</b> ) of wooden drum	m / m	1000 / 2.4 ( <b>24</b> )

*Prepared by: Agnieszka Kabacińska – 2022-03-08*

<sup>/3</sup> - Cable pulling forces by its conductor