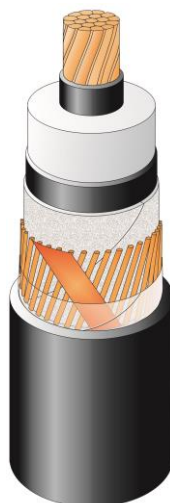


TECHNICAL SPECIFICATION
for Longitudinally Sealed Single Core Cables
type 2XS(F)2Y 1 x 300RM/35 mm² U₀/U(U_m) = 19/33(36)kV
acc. to NPS/002/021
/ G-125983 /

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)

The picture is informative only – not in scale

DESCRIPTION	UNIT	DETAILS ¹
CONSTRUCTION DATA		
Conductor <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 	- mm ² No mm -	Copper 300 acc. to EN 60228 acc. to EN 60228 No
Conductor screen ^{1 2} <ul style="list-style-type: none"> <input type="checkbox"/> Material <input type="checkbox"/> Minimum at point radial thickness 	- mm	semi-cond. polyethylene 0.3
Insulation ^{1 2} <ul style="list-style-type: none"> <input type="checkbox"/> Material <input type="checkbox"/> Minimum average / minimum at point radial thickness <input type="checkbox"/> Diameter over insulation 	- mm mm	XLPE 8.0 / 7.1 37.7
Insulation screen ^{1 2} <ul style="list-style-type: none"> <input type="checkbox"/> Type <input type="checkbox"/> Material <input type="checkbox"/> Minimum at point radial thickness 	- - mm	FULL BONDED semi-cond. polyethylene 0.3
Metallic screen <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 equalizing tape) 41.8 35 non-cond. swelling tape(s)
Sheath <ul style="list-style-type: none"> <input type="checkbox"/> Material <input type="checkbox"/> Minimum average /minimum at point radial thickness <input type="checkbox"/> Diameter over sheath - (D_k) 	- mm mm	MDPE – colour BLACK 2.4 / 1.94 47.7

¹ - Diameters are calculated values and subject to manufacturing tolerances

² - Triple extrusion processes, Dry curing and cooling.

DESCRIPTION	UNIT	DETAILS ¹
Weight of complete cable (approx.)	kg / km	4 140
ELECTRICAL DATA at 50Hz		
SHORT CIRCUIT CURRENTS		
Max Short Circuit Capacity:		
<input type="checkbox"/> conductor : 90 → 250 °C	kA / 1 s	42.9
<input type="checkbox"/> metallic screen: → acc. to BS 7870-4.10	kA / 1 s	4.5
AMPACITY (I_n) ³ BOTH-ENDS BONDING (BE)		
GROUND		
<input type="checkbox"/> FLAT formation	A	586
<input type="checkbox"/> TREFOIL formation	A	596
AIR	A	750
MECHANICAL DATA		
Recommended min. bending radius for laying	m	20 * D_k * 10⁻³
Recommended permissible bending radius at final installation	m	20 * D_k * 10⁻³
Maximum Cable Pulling Force: ⁴	kN	50 * (No * cross sectional) conductor * 10⁻³ But ≤ 20 kN
Lowest recommended temperature during laying:	°C	≥ 0
DELIVERY DATA		
Length per drum / Diameter (Type) of wooden drum	m / m	540 / 2.0 (20) 1140 / 2.4 (24) 1300 / 2.4 (24A)

Prepared by: Mateusz Wiśniewski – 2020-10-27

³ - Current rating guideline

GROUND :

- ☐ Ground temperature 15 °C
- ☐ Laying depth 0.8 m
- ☐ Ground thermal resistivity 1.2 K·m/W

AIR (SHADED Cable) :

- ☐ Air temperature 25 °C

⁴ - Cable pulling forces by its conductor