

TECHNICAL SPECIFICATION (N)A2XS(F)2YY-OT 1x240RM/25+OT 16/12 6/10 kV on the basis of HD 620 10C + Cust. Requir.

CONSTRUCTION

- □ Round, stranded and compacted aluminium conductor, Class 2
- Extruded semi-conducting conductor screen
- □ Insulation XLPE dry cured
- Extruded semi-conducting insulation screen - Fully bonded
- □ Semi-conducting swelling tape
- Metallic screen: copper wire screen and copper equalizing tape
- □ Separator swelling tape
- □ HDPE Tube
- □ Sheath
 - 1st black PE 2nd red PVC



The picture is informative only – not in scale

APPLICATION

- □ Laying in ground
- □ Laying in duct
- □ Laying in air

Highest permissible conductor temperature

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

Laying is possible without any special measures at natural cable temperatures not lower than -20 °C

DESCRIPTION	UNIT	DETAILS
CONSTRUCTION DATA		6 / 10(12)kV
Conductor		
material		aluminum
Nominal cross sectional area	mm ²	240
Conductor diameter and tolerance	mm	Acc. to EN 60228
Minimum thickness semi-conducting XLPE on		
conductor	mm	0.3
Insulation thickness: minimum average XLPE	mm	3.4
Insulation thickness: minimum at a point	mm	2.96
Diameter over insulation - nominal	mm	25.9
Minimum thickness semi-conducting XLPE on	mm	0.30
insulation		
Thickness of semi-conducting swelling tape	mm	~ 0.50
Metallic screen	2	
Copper Wires & Copper equalizing tape	mm^2	25
Diameter over metallic screen	mm	29.5
HDPE Tube		
External diameter	mm	16
Thickness	mm	2
Nominal outer sheath thickness (PE + PVC)	mm + mm	2.5 + 1.5
Approximate overall diameter	mm	38.4
Dimensions (height x width) of completed cable	mm x mm	38.4 x 57.5
Weight of complete cable (Approx.)	kg/km	1 910
DELIVERY DATA		
Diameter of wooden drum	m	2.4
□ type		24
Maximum length per drum	m	700
Weight of heaviest reel, including cable	kg	$pprox 2\ 160$



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DESCRIPTION	UNIT	DETAILS		
MECHANICAL DATA				
Recommended min. bending radius for laying	m	0.58		
Recommended permissible bending radius at final				
installation	m	0.46		
Maximum permissible pulling force	kN	7.2		
SHORT CIRCUIT CURRENTS				
Maximum permissible thermal short-circuit				
Current for 1 sec. (IEC 949)				
Phase conductor $90 \rightarrow 250 \text{ °C}$	kA	23.1		
Metallic screen $70 \rightarrow 350 \text{ °C}$	kA	5.1		
AMPACITY BOTH-END BONDING (BE)				
GROUND				
□ trefoil formation	А	496		
$\Box \text{flat formation}^{(*)}$	А	515		
AIR				
trefoil formation	А	494		
\Box flat formation ^(*)	А	573		
HDPE TUBE TESTS				

Testing HDPE tube in MV cable and guarantee the integrity of the HDPE tubes

a) verifying the pressure test on the HDPE tube for 60 minutes min. 10 bar pressure.

There shall be no loss of air pressure of more than 10% over the test period in 60 minutes.

b) verifying continuity, and dimensional stability of HDPE tubes throughout the length of the cable production. The minimum diameter of the profile must be 10,5 mm.

(*) Distance between cable axes laid in flat formation is diameter of main cable (PE-tube is not include in calculation)

Current rating guideline (Calculated according to IEC Publ. 287 and the following conditions)

Ground temperature	20°C
Ambient air temperature	30°C
Load factor	1.0
Ground thermal resistivity	0.7 K•m/W
T ' 1 4	0.0

 $\Box Laying depth 0.8 m$

Date: 2018-06-25 Prepared by: Mariusz Puchalski