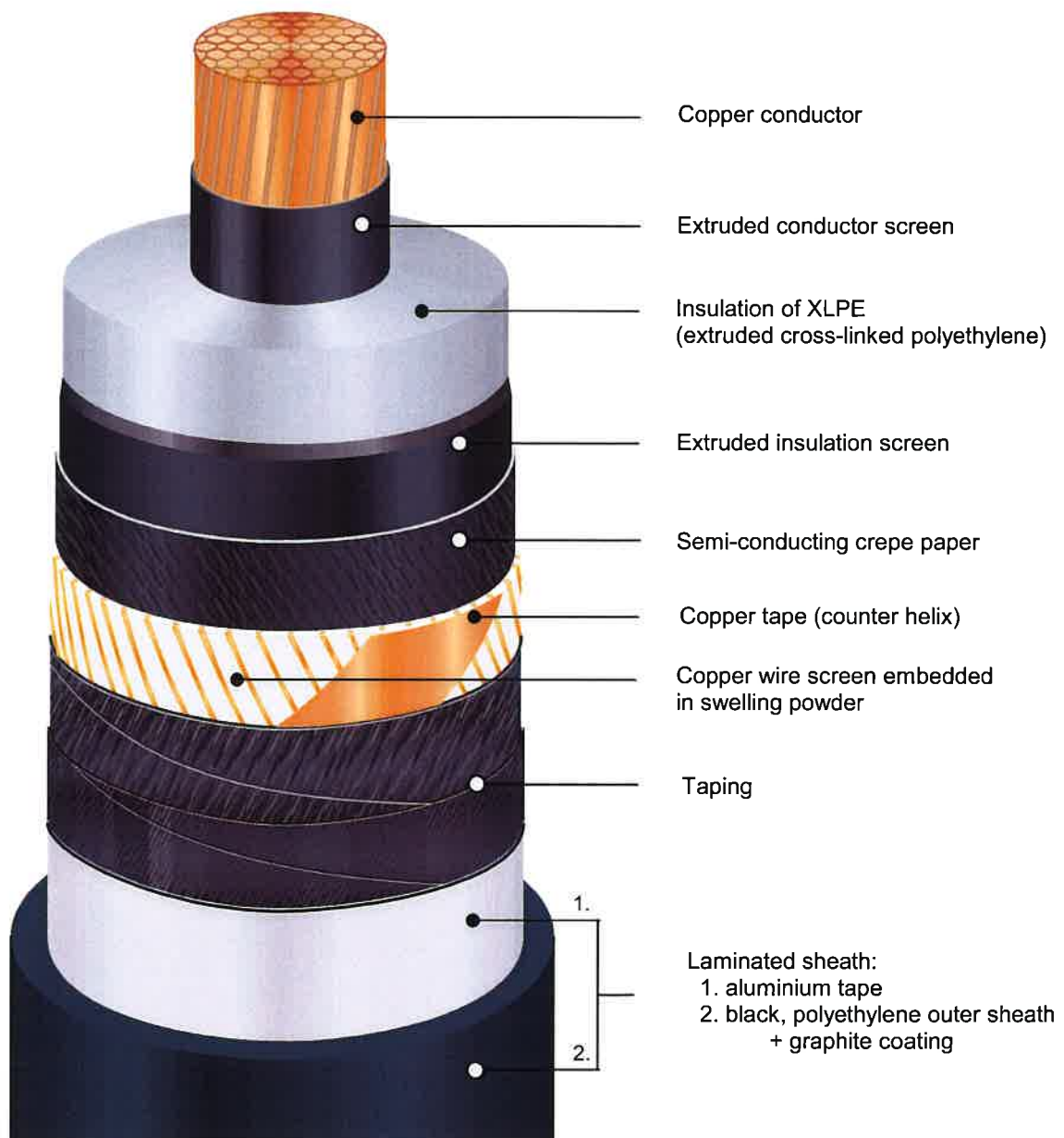


110 kV XLPE Cable construction

Cable Type:

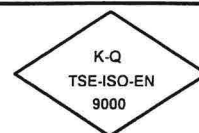
2XS(FL)2Y 1x 630 RM/95 64/110 kV



Drawn by : O. Sablic
Date : 02.08.2011
Drawing No.: PE 0997 10

**Construction of
110kV High Voltage XLPE Cable**

FACTORY SAMPLE TEST REPORT



KY-073-03/KG-94

CUSTOMER : [REDACTED] TYPE OF CABLE : 1x630 RM/95 mm² 64/110 kV
2XS(FL)2Y (Cu/XLPE/Cu Wire/Al Tape/HDPE)
REPORT NO : 12/0153 DATE : 10/01/2012

TESTS	REQUIREMENTS	RESULTS
		Drum No: ED-301
Conductor Examination conductor diameter	appx.30.25 mm	30.40 mm
Measurement of Electrical Resistance of Conductor Screen	max. 0.0283 Ω/km -	0.0277 Ω/km 0.151 Ω/km
conductor shield thickness appx.	1.0 mm	1.20 mm
insulation thickness nominal min.at any point (Tmax-Tmin)/Tmax	18.00 mm 16.20 mm ≤ 0.15	18.54 mm 18.16 mm 0.051
insulation shield thickness appx.	1.00 mm	1.17 mm
Copper screen cross-section copper wire- # of wires & dia. of wires copper tape dimensions	95 mm ² - appx. 1.5 mm thickness 0.10 mm	97.57 mm ² 54x1.504 mm 15.01x0.112 mm
Outer sheath thickness nominal min.at any point	3.40 mm 2.79 mm	4.18 mm 3.90 mm
Measurement of cable diameter	appx. 86 mm	86 mm
Hot-set Test for Insulation elongation under load permanent elongation	max. 175 % max. 15 %	65 % 0 %
Capacitance Measurement	0.174 + 8% μF/km	0.177 μF/km
Tests on components of cables with longitudinally applied metal foil Visual Examination Adhesion strength of foil Peel strength of overlapped foil	OK min. 0,5 N/mm min. 0,5 N/mm	OK. > 0,5 > 0,5
Water Penetration Test	No water shall emerge from the ends of the test piece. (max. 300 cm.)	Passed.
Outer Sheath Marking 1 st line: 64/110 kV 2XS(FL)2Y 1x630 RM/95 < CCC [REDACTED] > 2012 2 nd line: Core No+Meter Marking		OK.

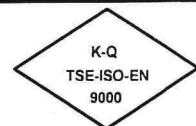
NOTE : ALL TESTS WERE PASSED SUCCESSFULLY.

CHECKED BY : [REDACTED]



DEMİRER KABLO

INSPECTION SAMPLE TEST REPORT



KY-073-03/KG-94

CUSTOMER : XXXXXXXXXX TYPE OF CABLE : 1x630 RM/95 mm² 64/110 kV
2XS(FL)2Y (Cu/XLPE/Cu Wire/Al Tape/HDPE)
DATE : 14/02/2012

TESTS	REQUIREMENTS	RESULTS
		Drum No: ED-301
Conductor Examination conductor diameter	appx.30.25 mm	30.45 mm
Measurement of Electrical Resistance of Conductor	max. 0.0283 Ω/km	0.0277 Ω/km
Screen	-	0.150 Ω/km
conductor shield thickness appx.	1.0 mm	1.16 mm
insulation thickness nominal	18.00 mm	18.50 mm
min.at any point	16.20 mm	18.00 mm
(Tmax-Tmin)/Tmax	<= 0.15	0.05
insulation shield thickness appx.	1.00 mm	1.15 mm
Copper screen cross-section	95 mm ²	97.60 mm ²
copper wire- # of wires & dia. of wires	-	54x1.504 mm
copper tape dimensions	appx. 1.5 mm thickness 0.10 mm	15.02x0.115 mm
Outer sheath thickness nominal	3.40 mm	4.33 mm
min.at any point	2.79 mm	4.10 mm
Measurement of cable diameter	appx. 86 mm	85.9 mm
Hot-set Test for Insulation elongation under load	max. 175 %	62.5 %
permanent elongation	max. 15 %	0 %
Capacitance Measurement	0.174 + 8% μF/km	0.177 μF/km
Tests on components of cables with alongitudinally applied metal foil		
Visual Examination	OK	OK.
Adhesion strength of foil	min. 0,5 N/mm	2.40 N/mm
Peel strength of overlapped foil	min. 0,5 N/mm	1.76 N/mm
Outer Sheath Marking 1 st line: 64/110 kV 2XS(FL)2Y 1x630 RM/95 < CCC XXXXXXXXXX > 2012 2 nd line: Core No+Meter Marking		OK.

