

Reference No: 2022090802

Date: September 8, 2022

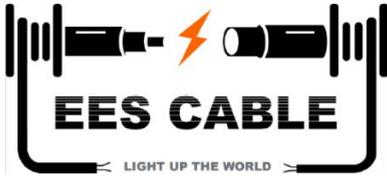
Test Report

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Name of sample	Tree wire				
Type and size	35kV 70mm ² (AAC/XLPE/XLPE)	Status describing	Complete cable		
Kind of test	Sample test	Reference No.	2022090802		
Test and verdict standard	NBR 11873 Covered cables with polymeric material for overhead distribution lines in spacers for voltages 13,8 kV up to 34,5 kV IEC 60228 Conductors of insulated cables				
Date of test	From September 5, 2022 to September 8, 2022				
Conclusion	The properties of the test specimen meet with the technical requirements of NBR 11873 Covered cables with polymeric material for overhead distribution lines in spacers for voltages 13,8 kV up to 34,5 kV and IEC 60228 Conductors of insulated cables				
Note	/				
Test preparing	Li Juan Zhao	Check-up	Qiu Rui Xu	Approval	Xiao Xian Cao

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Type and size: 35kV 70mm ² (AAC/XLPE/XLPE)			Reference No: 2022090802	Drum No.: 817W20-20	
No.	Item of test	Unit	Requirements	Test results	Verdict
1	Conductor				
	Material	-	Aluminum	Circular compacted Aluminum	✓
	Number of wires	No.	19	19	✓
	Diameter	mm	9.5-10.0	9.8	✓
	DC Resistance at 20°C	Ω/km	≤0.443	0.431	✓
2	Conductor screen				
	Min. thickness at any point	mm	≥0.32	0.69	✓
3	Inner Insulation				
	Material	-	XLPE	XLPE	✓
	Average thickness	mm	≥4.45	4.83	✓
	Min. thickness at any point	mm	≥4.01	4.74	✓
4	Outer Insulation				
	Material	-	XLPE	XLPE	✓
	Average thickness	mm	≥3.18	3.22	✓
	Min. thickness at any point	mm	≥2.87	3.14	✓
5	Cable				
	Approx.Overall diameter	mm	25.3-28.6	26.7	✓



Voltage Test (47.5kV 5min)	-	No breakdown	No breakdown	√
Mark	-	Rub-resistant, clear, correct	Rub-resistant, clear, correct	√
---End of report---				
Note: "√" mean that item qualified , "×" mean that item unqualified.				

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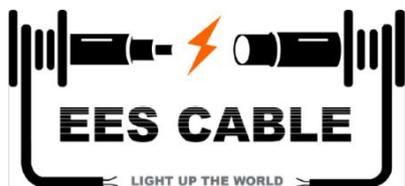
Test Report

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Name of sample	Tree wire			
Type and size	25kV 185mm ² (AAC/XLPE)	Status describing	Complete cable	
Kind of test	Sample test	Reference No.	2022090803	
Test and verdict standard	NBR 11873 Covered cables with polymeric material for overhead distribution lines in spacers for voltages 13,8 kV up to 34,5 kV IEC 60228 Conductors of insulated cables			
Date of test	From August 31, 2022 to September 8, 2022			
Conclusion	The properties of the test specimen meet with the technical requirements of NBR 11873 Covered cables with polymeric material for overhead distribution lines in spacers for voltages 13,8 kV up to 34,5 kV and IEC 60228 Conductors of insulated cables			
Note	/			
Test preparing	Li Juan Zhao	Qiu Rui Xu	Approval	Xiao Xian Cao

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Type and size: 25kV 185mm ² (AAC/XLPE)			Reference No: 2022090803	Drum No.: 817W20-13	
No.	Item of test	Unit	Requirements	Test results	Verdict
1	Conductor				
	Material	-	Aluminum	Circular compacted Aluminum	√
	Number of wires	No.	36	36	√
	Diameter	mm	15.8-16.3	16.1	√
2	DC Resistance at 20°C	Ω/km	≤0.164	0.159	√
	Conductor screen				
	Min. thickness at any point	mm	-	-	-



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3	Inner Insulation				
	Material	-	-	-	-
	Average thickness	mm			
	Min. thickness at any point	mm	-	-	-
4	Outer Insulation				
	Material	-	XLPE	XLPE	✓
	Average thickness	mm	≥4.0	4.14	✓
	Min. thickness at any point	mm	≥3.60	3.94	✓
5	Cable				
	Approx.Overall diameter	mm	23.8-26.4	24.6	✓
	Voltage Test (24kV 5min)	-	No breakdown	No breakdown	✓
	Mark	-	Rub-resistant, clear, correct	Rub-resistant, clear, correct	✓
	---End of report---				

Note: "✓" mean that item qualified , "×" mean that item unqualified.

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Type and size: 25kV 185mm ² (AAC/XLPE)			Reference No: 2022090803	Drum No.: 817W20-8	
No.	Item of test	Unit	Requirements	Test results	Verdict
1	Conductor				
	Material	-	Aluminum	Circular compacted Aluminum	✓
	Number of wires	No.	36	36	✓
	Diameter	mm	15.8-16.3	16.2	✓
	DC Resistance at 20°C	Ω/km	≤0.164	0.158	✓
2	Conductor screen				
	Min. thickness at any point	mm	-	-	-
3	Inner Insulation				
	Material	-	-	-	-
	Average thickness	mm			
	Min. thickness at any point	mm	-	-	-
4	Outer Insulation				
	Material	-	XLPE	XLPE	✓
	Average thickness	mm	≥4.0	4.46	✓
	Min. thickness at any point	mm	≥3.60	4.33	✓
5	Cable				
	Approx.Overall diameter	mm	23.8-26.4	25.0	✓
	Voltage Test (24kV 5min)	-	No breakdown	No breakdown	✓
	Mark	-	Rub-resistant, clear, correct	Rub-resistant, clear, correct	✓
	---End of report---				

Note: "✓" mean that item qualified , "×" mean that item unqualified.

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