



TEST REPORT

Products	CABLE DEGRADE		Size	PHLOX94	
Standard	EN50182 EN60889	EN50189	Invoice No. 20230210003	Date	2023.02.10
NO.	Item	Standards and Requirements		Test Results	Evaluation
1	Structure				
1-1	Number Of AAAC Wire	15		15	Qualified
1-2	Number Of Steel Wire	19		19	Qualified
1-3	Diameter Of Conductor	12.6±0.13		12.8	Qualified
1-4	20°C Max D.C Resistance	≤0.6435 Ω /km		0.6387	Qualified
1-5	The direction of outer layer	Left		Left	Qualified
1-6	Cable weight	474.2kg±9.4		476.5	Qualified
1-7	Overall breaking force	77.96KN		79.83	Qualified
2	Surface Of Conductor				
2-1	Surface Quality	The Surface Shall Be Smooth, Stranded Compactly, No Missing, Broken, Jumping or Loosing Strands.		Smooth, Compact	Qualified
3	Properties of aluminum alloy wire				
3-1	Material	aluminum alloy		aluminum alloy	Qualified
3-2	Diameter Of AL Wire	2.1±0.02		2.1	Qualified
3-3	Min. Tensile Strength	342N/mm ²		360	Qualified
3-4	Elongation	≥3%		3.5%	Qualified
4	Steel Wire Properties				



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4-1	Diameter Of Steel Wire	1.68 ± 0.02	1.68	Qualified
4-2	Min. Tensile Strength	1800N/mm ²	1890	Qualified
4-3	Min.stress at 1% elongation	$\geq 1450\text{N/mm}^2$	1510	Qualified
4-4	Elongation	$\geq 2\%$	2.5%	Qualified
4-5	Weight of zinc coating	$\geq 160\text{g}$	190	Qualified

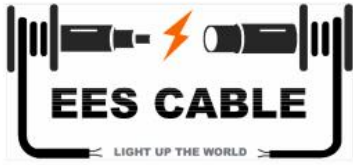
Tested by: Shaoqiong He

Checked by: Guohui Xu

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TEST REPORT

Products	ACSR		Size	186(160/26)		
Standard	IEC61809、IEC60888、IEC60889		Invoice No.	20230109002	Date	2023.01.09
NO.	Item	Standards and Requirements	Test Results	Evaluation		
1	Structure					
1-1	Number Of AL Wire	26	26	Qualified		
1-2	Number Of Steel Wire	7	7	Qualified		
1-3	Diameter Of Conductor	17.74±0.18	17.76	Qualified		
1-4	20℃ Max D.C Resistance	≤0.1805 Ω/km	0.1783	Qualified		
1-5	The direction of outer layer	Right- handed	Right-handed	Qualified		
1-6	Cable weight	644.9kg±12.8	645.1	Qualified		
1-7	Overall breaking force	57.69KN	68.45	Qualified		
2	Surface Of Conductor					
2-1	Surface Quality	The Surface Shall Be Smooth, Stranded Compactly, No Missing, Broken, Jumping or Loosing Strands.	Smooth, Compact	Qualified		
3	Aluminum Wire Properties					
3-1	Material	Hard drawn aluminum wire	Hard drawn aluminum wire	Qualified		
3-2	Diameter Of AL Wire	2.8mm±0.03	2.8	Qualified		
3-3	Min. Tensile Strength	170N/mm ²	180	Qualified		
3-4	Resistivity at 20℃	≤0.028264	0.027539	Qualified		
4	Steel Wire Properties					



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4-1	Diameter Of Steel Wire	$2.18\text{mm} \pm 0.03$	2.18	Qualified
4-2	Min. Tensile Strength	1400N/mm ²	1490	Qualified
4-3	Min.stress at 1% elongation	$\geq 1170\text{N/mm}^2$	1210	Qualified
4-4	Elongation	$\geq 3\%$	3.5%	Qualified
4-5	Weight of zinc coating	$\geq 215\text{g}$	260	Qualified

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Products	H07V-R		Size	1×29mm ²		
Standard	IEC60227-1 、 -2 、 -3 IEC60228		Invoice No.	20230106001	Date	2023.01.06
NO.	Item	Standards and Requirements	Test Results	Evaluation		
Structure						
1 Phase Core						
1-1	Number of core	1	1	Qualified		
1-2	Conductor Structure	19/1.4	19/1.4	Qualified		
1-3	Conductor Material	Annealed copper conductor	Annealed copper conductor	Qualified		
1-4	Diameter Of Conductor	7.0mm	7.0	Qualified		
2 Insulation						
2-1	Insulation Material	PVC	PVC	Qualified		
2-2	Color	Yellow+green	Yellow+green	Qualified		
2-3	Average Thickness Of Insulation	≥1.2mm	1.25	Qualified		
2-4	Min. Thickness Of Insulation	≥0.98mm	1.02	Qualified		
2-5	Surface Of Insulation	Smooth, Clean	Smooth, Clean	Qualified		
2-6	Printing Of Insulation	Printing should contains manufacturer, product and size, voltage etc. Printing should be clear, easily recognized, fastness	Passed	Qualified		
3 Electrical Performance						
3-1	20℃ Max D.C Resistance Of Phase Conductor	≤ 0.61 Ω /KM	0.602	Qualified		
3-2	Alternating Voltage Stress Testin (2.5kv/5min)	No Breakdown	No Breakdown	Qualified		
4 Finished product						
4-1	Cable diameter	9.4mm	9.5	Qualified		
4-2	Cable weight	310kg/km	312	Qualified		

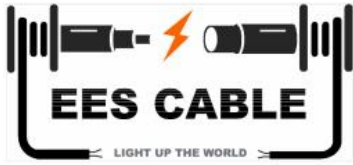
Tested by: Jingyan Zhao

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TEST REPORT

Products	Bear Medium-Hard-Drawn Copper Conductor	Size	19*1.4		
Standard	ASTM B2 ASTM B8	Invoice No.	20230105003	Date	2023.01.05
NO.	Item	Standards and Requirements	Test Results	Evaluation	
1	Structure				
1-1	Number Of Wire	19	19	Qualified	
1-2	Monofilament diameter	1.4mm±0.014	1.41	Qualified	
1-4	Diameter Of Conductor	7.0mm	7.0	Qualified	
1-5	Outer stranding	Rightward	Rightward	Qualified	
1-6	Minimum tensile strength of monofilament	415N/MM2	432	Qualified	
2	Surface Of Conductor				
2-1	Surface Quality	The Surface Shall Be Smooth, Stranded Compactly, No Missing, Broken, Jumping or Loosing Strands.	Smooth, Compact	Qualified	
3	Conductor Properties				
3-1	20°C Max D.C Resistance	≤0.617 Ω/km	0.601	Qualified	
3-2	Min. Breaking Load	12.1KN	13.4KN	Qualified	
3-3	Approximate total weight of cable	263.7±5.3kg/km	264.2	Qualified	

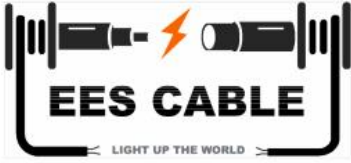
Tested by: Shaoqiong He

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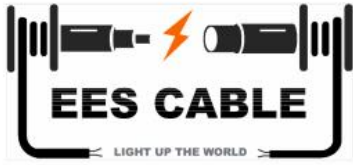
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Test Report

Products	18/36KV COVERED CONDUCTOR		Size	3*240MM ²	
Standard	IEC60228 IEC60502-2 NFC33-226	Invoice No.	20230104001	Date	2023.01.04
NO.	Item	Standards and Requirements		Test Results	Evaluation
	Structure				
1	Phase Core				
1-1	Number of core	3		3	Qualified
1-2	No.of wire	30		37	Qualified
1-3	Conductor Material	AL		AL	Qualified
1-4	Approx Conductor Dia	18.4mm		18.42mm	Qualified
2	Conductor shield				
2-1	Material	Extruded semi-conductive compound	Extruded semi-conductive compound		Qualified
2-2	Nominal thickness	0.7mm		0.8mm	Qualified
2-3	Minimum Thickness	0.3mm		0.4mm	Qualified
3	Inner Insulation				
3-1	Material	XLPE		XLPE	Qualified
3-2	Nominal thickness	8.0mm		8.4mm	Qualified
3-3	Minimum Thickness	7.1mm		7.6mm	Qualified
3-4	Outer insulation diameter	35.8mm		36.7mm	Qualified



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4	Shielding after insulation			
4-1	Material	Extruded semi-conductive compound	Extruded semi-conductive compound	Qualified
4-2	Nominal thickness	0.8mm	0.8mm	Qualified
4-3	Minimum Thickness	0.4mm	0.4mm	Qualified
5	Aquiclude			
5-1	Nominal thickness	0.3mm	0.3mm	Qualified
6	Metal shield			
6-1	Aluminum tape shielding	0.15mm	0.15mm	Qualified
7	Outer sheath			
7-1	Material	HDPE	HDPE	Qualified
7-2	Color	black	black	Qualified
7-3	Nominal thickness	2.3mm	2.4 mm	Qualified
7-4	Minimum Thickness	1.64mm	1.72mm	Qualified
8	Finished Product			
8-1	Approximate Overall Diameter Of Cable	92.1mm	93.7mm	Qualified
8-2	Direction Of Lay	Rightward	Rightward	Qualified
9	Electrical Performance			
9-1	20°C Max D.C Resistance Of Phase Conductor	$\leq 0.125 \Omega / \text{KM}$	0.114	Qualified
9-2	Partial discharge test(31kv)	$\leq 5\text{pc}$	2pc	Qualified
9-3	Alternating Voltage Stress Testing (63kv/5min)	No Breakdown	No Breakdown	Qualified

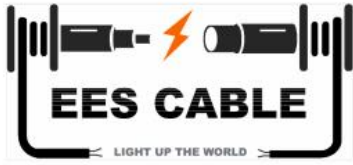
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Test Report

Products	YJV		Size	3*95+1*50	
Standard	IEC60502-1 IEC60228		Invoice No.	2023010500 2	
Date			2023.01.05		
NO.	Item	Standards and Requirements	Test Results	Evaluation	
Structure					
1 Phase Core					
1-1	Number of core	4	4	Qualified	
1-3	Conductor Material	Compacted copper conductor	Compacted copper conductor	Qualified	
1-4	Direction Of Lay	Rightward	Rightward	Qualified	
1-5	Cable outer didmeter	36.2mm	40.1	Qualified	
2 Insulation of 95mm²conductor					
2-1	Material Insulation	XLPE	XLPE	Qualified	
2-2	Color Insulation	Red yellow green	Red green yellow	Qualified	
2-3	Number of conductors	≥15	19	Qualified	
2-4	Compaction outer diameter	≥11.6mm	11.6	Qualified	
2-5	20°C Max D.C Resistance Of Phase Conductor	≤0.193 Ω /KM	0.185	Qualified	
2-6	Average Thickness Of Insulation	≥1.1mm	1.16	Qualified	
2-7	Min. Thickness Of Insulation	≥0.89mm	0.94	Qualified	
2-8	Outer diameter after insulatiom	13.8mm	13.9	Qualified	
3 Insulation of 50mm²conductor					
3-1	Material Insulation	XLPE	XLPE	Qualified	
3-2	Color Insulation	Blue	Blue	Qualified	
3-3	Number of conductors	≥6	10	Qualified	
3-4	Compaction outer diameter	≥8.2mm	8.2	Qualified	



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3-5	20°C Max D.C Resistance Of Messenger Conductor	$\leq 0.387 \Omega / \text{KM}$	0.359	Qualified
3-6	Average Thickness Of Insulation	1.0mm	1.05	Qualified
3-7	Min. Thickness Of Insulation	0.8mm	0.84	Qualified
3-8	Outer diameter after insulation	10.3mm	10.3	Qualified
4	Insulation Machinery Performance			
4-1	Elongation At Stress	$\leq 175\%$	45%	Qualified
4-2	Permanent Elongation After Cooling	$\leq 15\%$	1%	Qualified
5	Outer sheath			
5-1	Material	PVC	PVC	Qualified
5-2	Color	Black	Black	Qualified
5-3	Average Thickness Of Outer sheath	$\geq 2.1 \text{mm}$	2.2	Qualified
5-4	Min. Thickness Of Outer sheath	$\geq 1.5 \text{mm}$	1.6	Qualified
5-5	Alternating Voltage Stress Testin (3.5kv/5min)	No Breakdown	No Breakdown	Qualified
5-6	Printing Of Insulation	Printing should contains manufacturer, product and size, voltage etc. Printing should be clear, easily recognized, fastness	Passed	Qualified

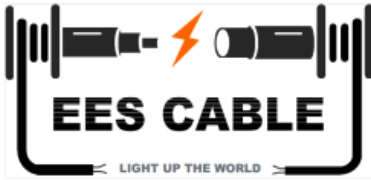
Tested by: Jingyan Zhao

Checked by: Guohui Xu

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Add: Room 305, Building 2, No. 380 Fengxin Road, Hangzhou, China



TEST REPORT

Product Name: AAAC

Report No: 8

Model specification: : AAAC-54.6mm²

Quantity: 39.352 km

NO: PUO.20221214002

DATE: 2022.12.30

NO	Test items	unit	standard requirement	test result
1	structure size			
1.1	Number of conductor single wires	root/ mm	7 3.15 ±0.02mm	7 3.15 3.15 3.145
1.2	Twisting direction of the outermost layer of the stranded wire		right (Adjacent layers should be opposite)	right
1.3	Twisted wire outermost layer pitch ratio inner layer pitch diameter ratio	times	14-16	14.7
2	Alloy Wire Properties			
2.1	Alloy Single Wire Resistivity(20°C)		≤ 32.60nΩ.m	31.58
2.2	Average tensile strength	N/mm ²	≥ 342 individual value 325	344
2.3	Elongation	%	not less than3.0%	4.8
2.4	winding test		1d, 8 turns forward and 6 turns backward, no breakage	PASS
3	Stranded wire DC resistance(20°C)	Ω/km	no greater than0.6042Ω/km	0.5841
4	Stranded wire reference outer diameter	mm	9.45	9.45
5	Strand breaking force	KN	≥ 17.73	18.69
6	standard weight	kg/km	148.9±2.9	148.4
7	Workmanship quality		Smooth, twisted tightly without burrs	qualified

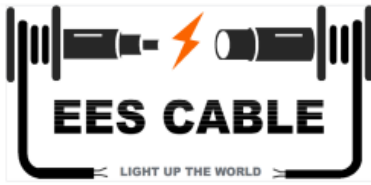
Conclusion: After inspection, the above items all meet the requirements of the technical agreement standard and are qualified.

Inspection: Zhang Xuedian

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: Wang Aihong



TEST REPORT

Product Name: AAAC

Report No: 135

Model specification: AAAC-148mm²

Quantity: 338.656 km

NO.: PUO.20221214002

DATE: 2022.12.28

NO	Test items	unit	standard requirement	test result
1	structure size			
1.1	Number of conductor single wires	root/mm	19 3.15 ±0.02mm	19 3.15 3.15 3.145
1.2	Twisting direction of the outermost layer of the stranded wire		right (Adjacent layers should be opposite)	right
1.3	Twisted wire outermost layer pitch ratio inner layer pitch diameter ratio	times	10-14 10-16	11.8 15.1
2	Alloy Wire Properties			
2.1	Alloy Single Wire Resistivity(20°C)		≤ 32.60nΩ.m	31.47
2.2	Average tensile strength	N/mm ²	≥ 342 individual value 325	347
2.3	Elongation	%	not less than3.0%	4.8
2.4	winding test		1d, 8 turns forward and 6 turns backward, no breakage	PASS
3	Stranded wire DC resistance(20°C)	Ω/km	no greater than0.2239Ω/km	0.2147
4	Stranded wire reference outer diameter	mm	15.75	15.75
5	Strand breaking force	KN	≥ 48.12	50.67
6	standard weight	kg/km	406.5±8.1	404.9
7	Workmanship quality		Smooth, twisted tightly without	qualified

Conclusion: After inspection, the above items all meet the requirements of the technical agreement standard and are qualified.

Inspection: Zhang Xuedian Re

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