Test Report

Products	Concentric Cable		**Size**	1*6AWG+6AWG	
Standard	UL 854 ICEA S 95-658 ASTM B800 ADTM B801	**Invoice No.**	20220718001	**Date**	2022.07.18
NO.	**Item**	**Standards and Requirements**		**Test Results**	**Evaluation**
	Structure				
1	**Phase Core**				
1-1	Number of core	1		1	Qualified
1-2	Conductor Structure	7*1.55		7*1.55	Qualified
1-3	Conductor Material	AL		AL	Qualified
1-4	Outer Stranding Direction Of Lay	Rightward		Rightward	Qualified
1-5	Lay Ratio	10-16		13.5	Qualified
1-6	Conductor Dia.	4.66mm		4.70mm	Qualified
2	**Insulation**				
2-1	Insulation Material	Weatherability-XLPE		Weatherability-XLPE	Qualified
2-2	Color	Black		Black	Qualified
2-3	Average Thickness Of Insulation	≥1.38mm		1.40mm	Qualified
2-4	Min. Thickness Of Insulation	≥1.14mm		1.28mm	Qualified
3	**Neutral Conductor**				
3-1	8000 AAAC Conductor Structure	20/0.813		20/0.813	Qualified
3-2	PET	0.05		0.05	Qualified
4	**Outer Jacket**				
4-1	Average Thickness	1.38mm		1.42mm	Qualified
4-2	Min. Thickness	1.14mm		1.28mm	Qualified
4-3	Tensile Strength	≥12.4MPA		14.4MPA	Qualified
4-4	Elongation	≥250mm		300mm	Qualified
5	**Finished Product**				
5-1	Approximate Overall Diameter Of Cable	12.106		13.16	Qualified
5-2	Approximate Total Weight Of Cable	153KG/KM		155KG/KM	Qualified
6	**Electrical Performance**				
6-1	20℃ Max D.C Resistance Of Phase Conductor	≤ 2.16 Ω/KM		2.08	Qualified

6-2	Max. Resistance Of Neutral Conductor at 20℃	≤ 2.24 Ω/KM	2.09	Qualified
6-3	Alternating Voltage Stress Testing（3.5kv/5min）	No Breakdown	No Breakdown	Qualified
7	**Insulation Machinery Performance**			
7-1	Elongation At Stress	≤175％	60	Qualified
7-2	Permanent Elongation After Cooling	≤15％	1％	Qualified

Tested by：Shaoqiong He   **Checked by**： Guohui Xu
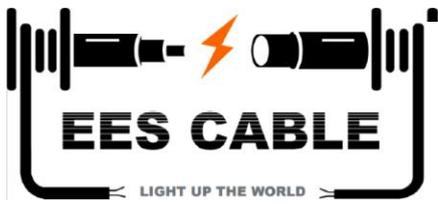
杭州益睿电线电缆有限公司
HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD.