



## Test Report

Products	CABLE CUIVRE ROUD COPPER XLPE ISOLE PVC		Size	3*95+1*50	
Standard	IEC60502-1 IEC60228	Invoice No.	20230105002	Date	2023.01.05
NO.	Item	Standards and Requirements	Test Results	Evaluation	
<b>Structure</b>					
1	<b>Phase Core</b>				
1-1	Number of core	3	3	Qualified	
1-3	Conductor Material	Compacted copper conductor	Compacted copper conductor	Qualified	
1-4	Direction Of Lay	Rightward	Rightward	Qualified	
1-5	Diameter of conductor	11.6mm	11.6	Qualified	
1-6	20°C Max D.C Resistance Of Phase Conductor	$\leq 0.193 \Omega /KM$	0.185	Qualified	
1-7	Number of conductors	$\geq 15$	19	Qualified	
2	<b>Insulation of Phase Core</b>				
2-1	Material Insulation	XLPE	XLPE	Qualified	
2-2	Color Insulation	Red yellow green	Red yellow green	Qualified	
2-3	Average Thickness Of Insulation	$\geq 1.1mm$	1.16	Qualified	
2-4	Min. Thickness Of Insulation	$\geq 0.89mm$	0.94	Qualified	
2-5	Nominal Dia. Over insulation	13.8mm	13.9	Qualified	
3	<b>Neutral Core</b>				
3-1	Material Insulation	XLPE	XLPE	Qualified	
3-2	Color Insulation	Blue	Blue	Qualified	
3-3	Number of wires	$\geq 6$	10	Qualified	
3-4	Compaction outer diameter	$\geq 8.2mm$	8.3	Qualified	
3-5	20°C Max D.C Resistance Of Messenger Conductor	$\leq 0.387 \Omega /KM$	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	Nominal Dia. Over insulation	10.3mm	10.3	Qualified
4	<b>Insulation Machinery Performance</b>			
4-1	Elongation At Stress	$\leq 175\%$	45%	Qualified
4-2	Permanent Elongation After Cooling	$\leq 15\%$	1%	Qualified
5	<b>Outer sheath</b>			
5-1	Material	PVC	PVC	Qualified
5-2	Color	Black	Black	Qualified
5-3	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 Testing (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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