
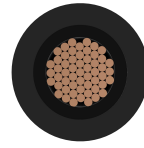
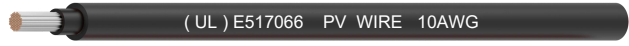


SPECIFICATION FOR APPROVAL



1.CONSTRUCTION

RATED VOLTAGE	PV		REVISION:	A/0	FORM NO.	B274
	1000 OR 2000V		CONSTRUCTION D.W.G			
Conductor	Cross-sectional Area	10AWG	  			
	Material	Stranded Tinned Copper				
	Conductor.Size (mm)	78/(0.3±0.008)				
	Stranded OD.(mm)	3.06				
Inner Layer	Material	XLPE				
	AVG Thickness (mm)	1.14				
	Min Thickness (mm)	1.05				
	OD.(mm)	5.45±0.10				
Outer Layer	Material	XLPE				
	AVG Thickness (mm)	0.76				
	Min Thickness (mm)	0.69				
	OD. (mm)	7.05±0.20				
	Color	Black	INNER AND OUTER LAYER IS INSEPARABLE .			

2.MECHANICAL CHARACTERISTICS

ITEM		SPECIFICATION	
		INNER LAYER	OUTER LAYER
Elongation	Un-aged	≥150%	≥150%
Strength		≥10.3MPa	≥10.3MPa
Cold bend test	(-40 ± 2.0°C × 16h)	No cracking	
Flame test	VW-1	PASS	
Sunlight resistance test	720h	Elongation and strength retention rate ≥80%	
Rated temperature	-40°C up to +90°C		

3.ELECTRICAL CHARACTERISTICS

ITEM	SPECIFICATION
Max. Conductor DC Resistance at 20°C	≤3.55Ω/km
Dielectric Strength	6kV/min
Spark test	10000VAC

4.STANDARD

PRODUCT STANDARD CERTIFICATION	Reference Standard:
E517066	UL 4703

5.MARKING

(UL) E517066 PV WIRE 10AWG 90°C DRY AND 90°C WET 1000 OR 2000V SUN RES DIR BUR -40°C SUNKEAN CABLE CO.,LTD.

6.PACKING

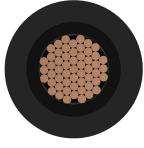



- (a) 1KFT(305m)、2KFT(610m)、4KFT(1220m)
- (b) Consulting if delivering in other ways

Part No.	Serial No.	Drawing	Checked	Approved	Date	APPROVED
PVB1010-0121	001	Luo	Seven	Defree	2024/2/28	

SPECIFICATION FOR APPROVAL



1.CONSTRUCTION

RATED VOLTAGE	PV		REVISION:	A/0	FORM NO.	B274
	1000 OR 2000V		CONSTRUCTION D.W.G			
Conductor	Cross-sectional Area	12AWG	  			
	Material	Stranded Tinned Copper				
	Conductor.Size (mm)	48/(0.3±0.008)				
	Stranded OD.(mm)	2.4				
Inner Layer	Material	XLPE				
	AVG Thickness (mm)	1.14				
	Min Thickness (mm)	1.05				
	OD.(mm)	4.75±0.10				
	Color	Black				
Outer Layer	Material	XLPE				
	AVG Thickness (mm)	0.76				
	Min Thickness (mm)	0.69				
	OD. (mm)	6.35±0.20				
	Color	Black				
			INNER AND OUTER LAYER IS INSEPARABLE .			

2.MECHANICAL CHARACTERISTICS

ITEM	SPECIFICATION		
		INNER LAYER	OUTER LAYER
Elongation	Un-aged	≥150%	≥150%
Strength		≥10.3MPa	≥10.3MPa
Cold bend test	(-40 ± 2.0°C × 16h)	No cracking	
Flame test	VW-1	PASS	
Sunlight resistance test	720h	Elongation and strength retention rate ≥80%	
Rated temperature	-40°C up to +90°C		

3.ELECTRICAL CHARACTERISTICS

ITEM	SPECIFICATION
Max. Conductor DC Resistance at 20°C	≤5.64Ω/km
Dielectric Strength	6kV/min
Spark test	10000VAC

4.STANDARD

PRODUCT STANDARD CERTIFICATION	Reference Standard:
E517066	UL 4703

5.MARKING

(UL) E517066 PV WIRE 12AWG 90°C DRY AND 90°C WET 1000 OR 2000V SUN RES DIR BUR -40°C SUNKEAN CABLE CO.,LTD.

6.PACKING

- (a) 1KFT(305m)、2KFT(610m)、4KFT(1220m)
- (b) Consulting if delivering in other ways

Part No.	Serial No.	Drawing	Checked	Approved	Date	APPROVED
PVB1012-0108	001	Luo	Seven	Defree	2024/2/28	