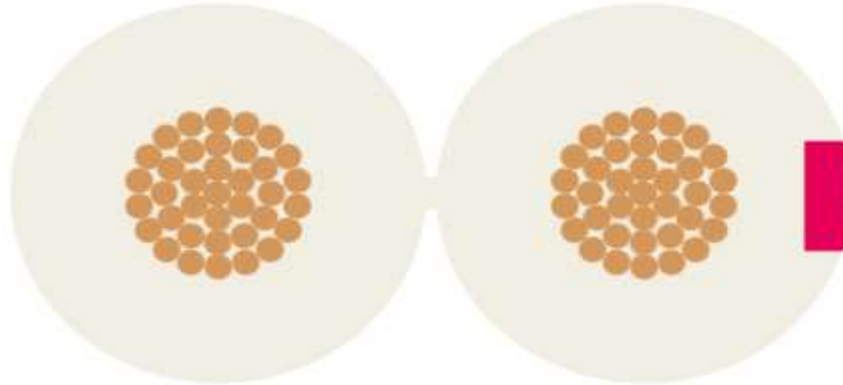


Product Name: 7STAR Solar Cable 10mm² AL



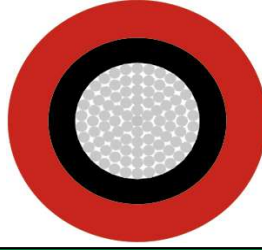
Center Conductor	Material	Aluminum Stranded Wire
	Diameter	84/0.405mm
	Size	10mm ²
	Core	1
Single Wire Insulation	Material	XLPE
	Diameter	5.60±0.1mm
	Average Skin Thickness (mm)	0.70mm
	Colour	Black
Jacket	Material	XLPE
	Diameter	7.2±0.2mm ,Thickness: 0.80mm, Min Thichness > 0.71mm
	Color of Jacket	BLACK/RED

Mechanical Properties

Operating Temp. Range	-40~90 °C
Tensile Strength of Insulation	≥8 Mpa
Elongation of Insulation	≥125%
Retention of Insulation After Aging (150°C, 168h)	≥70%
Insulation Thermal elongation test (250°C, 20N/cm ²)	< 100% , < 25%(Cooling Retention)
Tensile Strength of Jacket	≥8 Mpa
Elongation of jacket:	≥125%
Retention of Elongation after aging (150°C, 168h)	≥70%
Reference Standards	EN50618

Electrical and Transmission Properties @ 20C

1.Nominal Voltage	DC 1.5KV or AC 1/1KV
2.DC Resistance of Conductors	$\leq 2.85 \Omega/\text{km}$
3.Voltage Test	6.5 KV / 5min Pass
4.Insulation Resistance at 90°C	$> 0.42 \text{ M}\Omega.\text{Km}$
5.Continuity Test	100% PASS
6.Spark Test (50Hz)	3.5KV
7.Surface Resistance of Jacket (250V ,1min)	$\geq 10^9 \Omega$



This Cable Fully Conforms to EU Directive 2011/65/EU (RoHS-2)

Revision:	DATA	Issue / change content	Edited	Checker	Approval
A/1	8-10-2025		Qiu meihua	Weitianlong	Jinjianbing