

SPECIFICATION FOR SOLAR CABLE 4.0MM²

Drawing			
Cable Specification	Solar cable 1X4.0mm ²	Voltage	1500V DC
CABLE CONSTRUCTION		UNIT	SPEC. PARAMETER
Conductor	Size	mm ²	4
	Material	/	Tinned-Copper
	Stranded Diameter	mm	2.5
Insulation	Material	/	XLPO
	Average Thickness	mm	0.7
	Minimum Thickness	mm	0.6
	O.D.	mm	3.9
	Color	/	Black / White
Sheath	Material	/	XLPO
	Average Thickness	mm	0.8
	Minimum Thickness	mm	0.7
	O.D.	mm	5.6+0.1mm
	Color	/	Black / Red
Ref. Weight	G.N.	(kg/km)	61
Marking	TÜV SÜD EN 50618:2014 H1Z2Z2-K 1×4mm ²		
Certification	TUV NO.: B180601913002		
Standard	EN 50618:2014		
Packing	1) 100m. 2) 1000m/ Drum 3) Delivering in other way		
Mechanical Properties			
Operating temperature	- 40°C ~ + 90°C	Max. DC Resistance at 20°C (Ω/km)	5.09
Min resistance of insulation at 20 °C	580 MΩ.km	Min resistance of insulation at 90 °C	0.58 MΩ.km
Max. Temperature	120°C	Safe carrying capacity free in Air	55 A
Application Class	A	Protection Class	II
Rated Voltage	DC 1500V (between conductors and between conductor and earth) AC Uo/U: 1.0/1.0 KV		
Physical Properties			
Item	Test Method Standard	Insulation	Sheath
Elongation	EN 60811-501	125%	125%
Strength		8.0 N/mm ²	8.0 N/mm ²
Hot Set Test	EN 60811-507	250±3 °C	250±3 °C
Cold elongation test	EN 60811-505	-40 ± 2	-40 ± 2
Temperature index corresponding to 20 000 h		≥120	≥120