

SPECIFICATION			
STANDARDS	EN50618/IEC62930	TYPE	H1Z2Z2 -K 1X4mm ²
APPLICATION	It is designed for the connection of photovoltaic panels and suitable for both fixed and mobile solar installations ,meet the varying needs of the solar industry		
TECHNICAL DATA			
CONDUCTOR	Material	Electrolytic annealed tinned copper, class 5 (flexible) according to IEC 60228 and EN 60228.	
	Size	4mm ²	
	Strand	56*0.28 ±0.008mm	
	Approx.OD	2.41mm	
INSULATION	Material	XLPO.Halogen -free electron -beam cross-linked, according to EN 50618 and IEC 62930	
	Thickness	0.7mm	
	Minimum thickness	0.53mm	
	Approx.OD	3.9±0.2mm	
	Color	■	
JACKET	Material	XLPO.Halogen -free electron -beam cross-linked, according to EN 50618 and IEC 62930	
	Thickness	0.8mm	
	Minimum thickness	0.58mm	
	Approx.OD	5.5±0.2mm	
	Color	■ ■	
MARKETING			
ELECTRICAL PERFORMANCE	Rated voltage	1.0/1.0kV AC. 1.5(1.8)kV DC.	
	Test Voltage (AC)	6.5kV/5min, 50Hz.	
	Conductor resistance at 20°C	5.09Ω/km	
	Minimum insulation resistance at 20°C	580MΩ.km	
	Spark test AC	10kV	
MECHANICAL PERFORMANCE	Temperature range	-40°C ~ +90°C,conductor temperature of 120°C at a max (20000h)	
	Short-circuit-temperature	250°C/5s	
	elongation of unaged values %	125	
	ensile strength of unaged values N/mm ²	8.0	
	Acid and alkali resistance	EN 60811 -404	
	Ozone resistance	EN 60811 -403, EN50396	
	Weathering/UV resistance	EN 50289 -4-17 ,EN60811 -501	
	Flame -resistance	EN 60332 -1-2.CPR: Cca according to EN 50575	
	Water resistance	EN 50525 AD8 Submersion	
	Anticipated service life	25 years	
CURRENT CARRYING CAPACITY of PV CABLES at 120 °C (AMBIENT TEMPERATURE : 60°C)	Single cable free in air (A)	55	
	Single cable on a surface(A)	52	
	Two loaded cables touching, on a surface(A)	44	
	In conduit (A)	35	
INSTALLATION CONDITIONS	Open Air/Buried /In conduit		
PREPARED :	CHECKED :	APPROVED :	CUSTOMER SIGNATURE :
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