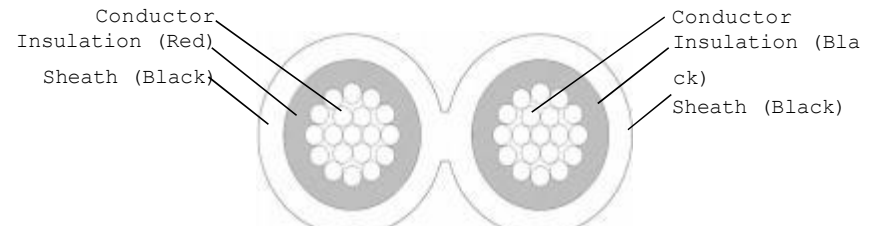


 **TONGLIN PHOTOVOLTAIC WIRE & CABLE**

Cross Section									Electrical Characteristics						
									Item		Electrical Characteristics				
									Rated Voltage & Temperature		-40°C .. .+90°C				
									Insulation Resistance (MIN)		580MΩ .km@20°C 0.58MΩ .km@90°C				
									Conductors Resistance (MAX, @20°C)		2.5mm ² : 8.21Ω/km				
											4mm ² : 5.09Ω/km				
6mm ² : 3.39Ω/km 10mm ² : 1.95Ω/km															
Construction									Dielectric Strength		6.5 kv~/5Min.				
Spec .	Conductors		Insulation			Sheath			Physical Characteristics						
	Qty/OD	Stranded Diameter	Ave . Thickness	Min . Thickness	Diameter	Ave . Thickness	Min . Thickness	Diameter	Item	Inner layer	Outer				
2.5mm ²	49/0 .25±0 .008	2.02	0.7	0.6	3.5±0.05	0.8	0.65	5 .1±0 .2X10.2±0 .2	Unaged	Tensile Strength	≥10.3Mpa	≥10.3Mpa			
4mm ²	56/0 .285±0 .008	2.46	0.7	0.6	3.9±0.05	0.8	0.65	5.5±0 .2X11 .1±0 .2		Elongation	≥150%	≥150%			
6mm ²	84/0 .285±0 .008	3.02	0.7	0.6	4.5±0.05	0.8	0.65	6 .1±0 .2X12 .2±0 .2	Cold Bend	(-40±2°C *16H)	/	IEC60811-1-4, No crack			
10mm ²	77/0 .4±0 .008	4.05	0.7	0.6	5.5±0.05	0.8	0.65	7 .1±0 .2X14.2±0 .2	Flame Test		/	Vertical Flame Test			
Marking : Red cable : Tonglin Cable ▲ H1Z2Z2-K 62930 IEC 131 *mm ² DC 1500V HALOGEN FREE LOW SMOKE Jiangsu Tonglin Electric Co .,Ltd (+) Black cable: Tonglin Cable ▲ H1Z2Z2-K 62930 IEC 131 *mm ² DC 1500V HALOGEN FREE LOW SMOKE Jiangsu Tonglin Electric Co .,Ltd (-)									Weathering/ UV Res.		/		EN50289-4-17		
									Ozone Resistant		/		EN60811-403		
REMARKS:									Cold Bending Test		/		(-40°C/4H) no crack		
									Acid & Alkali Res.		/		EN60811-404		
Product Descriptions Tinned copper stranded wire XLPE insulation, RoHS XLPE jacket, RoHS Bending radius: 5*D Reference Standard IEC62930									Deformation Test		/		131°C/30min The thickness shall not decrease more than 30%		
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									1	2022/07/06	/				
TL P/N#			/			Customer			/			Customer P/N#		/	
Prepared By			M L			Checked By			/			Approved By		/	