

NAME: PV cable (DC)		Data Sheet 	
Trade Mark: <i>HedSun</i>		1 x 4 mm² Flexible DC Cable	
Identification		Solar Type II	page 1/2
Applicable Standard		IEC 62930 , ISIRI 15613	Generally type II conforming to TUV 2pfg 1169
Nominal Voltage		1500 V DC , 1000 VAC	
CONDUCTOR	Material	Stranded Electrolytic Tinned copper	
	N x d	56 x 0.29	
	class	5	
	standard	IEC 60228	
Resistance	mΩ/m	5.09	
INSULATION	material	Crosslinked XLPO – Halogen Free	
	Color	Black	
	Thickness(mm)	0.7	
SHEATH	Material	Crosslinked HFFR – UV resistant	
		Low smoke Halogen Free	
		Flame Retardant	
	color	Black - Red	
	Thickness (mm)	0.8	
Outer Diameter	mm	5.6	
Temperature Range		-40 TO+ 120	
Voltage Rating	VAC U ₀ /U	1000/1000	
	VDC U ₀ /U	1500 /1500	
Current Rating	A	54	
Minimum insulation resistance	at 20°C	709 MΩ.km	
	at 90°C	0.709 MΩ.km	
UV resistance		Ray: 60 w/m2 Dry: 102min Rain:18 min	ACC TO ISO 4892-2

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Identification		Solar Type II	page 2/2
Flame Retardant		OK	ACC TO EN 60332-1-2
Voltage Test	V	6.5 KVAC	For 5 min.
Hot Set Test	Insulation:	200 °c	
	Sheath:	250 °c	
Damp Heat test	90 °c	85% RH	For 1000 hours
Dynamic penetration Test	D=2.55	F=240 N	Annex D EN 50618
Ozone Resistance	25°c	24 h	
App. Weight	Kg/km	60	
Cold Impact Test	M=1000g	OK	ACC TO IEC 60811-506
Thermal Endurance	20000h , 120 min EI>50	OK	ACC TO IEC 60216-1,2
Minimum Bending Radius	Min. 6 x D	OK	D=overall cable diameter
Marking	Electrosim Hedayat Hedsun (PV) 1.5 KV DC		
Packing length / weight	Customizable	100 m : Coil	6 kg
		500 m : Plastic Reel Ø400 mm	32 kg
		1000 m : Plastic Reel Ø500 mm	64 kg