

# TECHNICAL DATASHEET – S1

## AEI Solar Cable – Double Insulated LSZH



<b>Specification</b>	VDE E PV 01		
<b>Voltage Rating</b>	0.6/1.0 kVac, 1.1/1.8kVdc.		
<b>Description</b>	Flexible tinned copper conductors, double insulated.		
<b>Standard Colour</b>	Black		
<b>Fire Performance</b>	Flame Propagation (60332-1), halogen free (EN50267), low smoke (EN61034)		
<b>Environmental</b>	Ozone (IEC 60811-2-1), UV resistant (ISO4892)		
<b>Temp Range</b>	-40°C to +105°C continuous (20,000 hours @120°C)		
<b>Minimum Bend</b>	<b>Flexing</b>	<b>D ≤ 10mm 3 x OD</b>	<b>Static D ≤ 10mm 3 x OD</b>
		<b>D ≥ 10mm 5 x OD</b>	<b>D ≥ 10mm 4 x OD</b>

No. of cores & Nominal Cross Sectional Area of Conductor	Diameter of conductor	Maximum DC Conductor Resistance @ 20°C	Nominal Overall Diameter	Nominal Weight
no x mm <sup>2</sup>	mm	Ω/Km	mm	Kg/Km
1 x 1.50	1.60	13.70	4.60	31
1 x 2.50	2.00	8.21	5.00	46
1 x 4.00	2.50	5.09	5.50	60
1 x 6.00	3.00	3.39	6.00	82
1 x 10.00	4.20	1.95	7.20	126
1 x 16.00	5.50	1.24	8.30	183
1 x 25.00	6.85	0.795	10.70	278
1 x 35.00	8.50	0.565	12.40	374

**Notes:**

- 1 This cable has a fully bonded double insulation, if a separable insulation and sheath is required refer AEI Solar Cable Insulated and Sheathed, data sheet S2
- 2 AEI Cables reserves the right to amend the product information without notice or liability. The information is considered accurate at the time of going to print.

**AEI Cables Limited,**  
Durham Road,  
Birtley,  
Chester-le-Street,  
County Durham DH3 2RA

Telephone: +44 (0) 191 410 3111 or Facsimile: +44 (0) 191 410 8312  
Email: sales@aeicables.co.uk or technical@aeicables.co.uk  
Website: www.aeicables.co.uk