LHS® SELECT

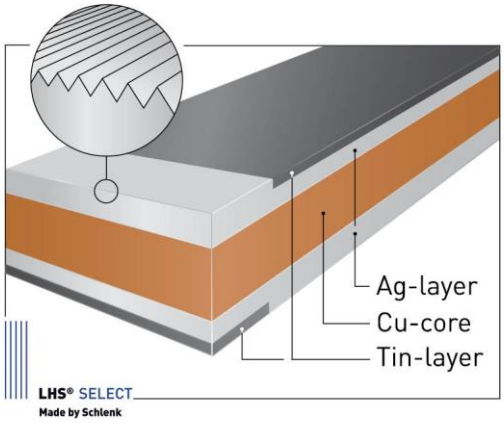
LHS® SELECT is a copper strip silvered on both sides and selectively pre-tinned in areas where connections to the cells are to be made.

The strip is precisely structured with grooves along its length. Much as conventional wires used today, LHS® connects the top and back sides of adjoining cells.

The great advantage of LHS® is that the structured surface allows sunlight to be reflected in a precisely defined angle towards the glass / air interface resulting in total internal reflection (TIR).

This accordingly redirects the light to the cell surface and leads to an increase of efficiency of up to 3%.

Cell-connectors for Solar Modules



Standard specification:

Base-material (core):	ETP Copper Foil, soft	
Silver layer:	99.99% pure silver	
Solder types:	L-Sn96.5Ag3.5	(leadfree solder)
	L-Sn96.5Ag3.0Cu0.5	(leadfree solder)
	L-Sn60Pb40	
	L-Sn62Pb36Ag2	
Tin - layer thickness:	12 – 20 µm (measured thickness from peak of base material to top of tin surface)	
Silver layer thickness:	to be agreed	
Strip thickness:	0.100 mm - 0.250 mm (nominal: incl. copper and silver measured before structuring)	
Width:	1 mm - 50 mm (depending on strip thickness)	
Tin layout:	accord. to individual request or standard specification	
Coil design:	available on coils or on spools	

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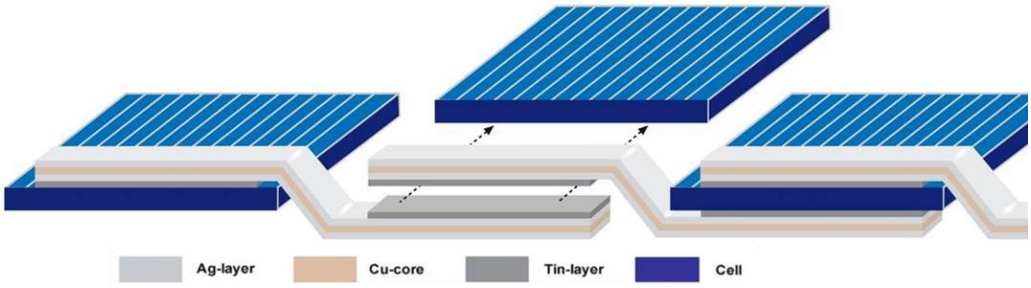
As silver is an excellent conductor, LHS® connectors will show lower resistance values than standard connectors of the same dimension.

Our pre-tinned solution

LHS® SELECT is pre-tinned in areas where connections to the cells are to be made. Thus, conventional stringing equipment can be used.



Advantages of LHS® SELECT:

- module efficiency is increased by up to 3 % depending on module / cell configuration
- Gentle to your cells: The thickness of the connector is reduced in the critical transition from front to back side. This reduces stress on the cell itself.
- Visual appearance: dark uniform appearance, distinguishable from standard product, very suitable for building integrated design (BIPV)
- LHS® is a cost effective alternative to all backside contact solutions, as existing cell design remains unchanged, only simple and small-scale changes to existing processing equipment required
- available: with individual tin-pad patterns, different solder-types and overall dimensions

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