



Solar Technologies

MTW

Multi Tabbing Wire

Multi-Tabbing Wire is the newest development for the multiple Bus-bar technology. Over the years, UST has leveraged experiences in product development, manufacturing and marketing competences to engineer a solder coated copper round wire for cell interconnection.

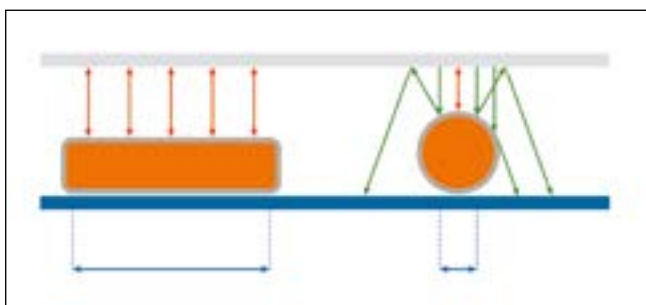
Ulbrich's Multi-Tabbing Wire offers the same high quality and product performance standards you are familiar with from all our other products we supply to the PV Industry. Multi-Tabbing Wire is available in all common copper grades including high-purity oxygen-free copper.

There are no limitations regarding the available dimension you need to build the best performance modules. We have developed a solder coating process to achieve concentric coating layers to guarantee consistent soldering results in the stringing process. The options of solder materials have been expanded to include bismuth and indium alloys, in addition to our standard SnPb alloys.

BENEFITS

- Concentric solder coated round wire for high efficiency solar cell modules
- Available in lead or lead free solder materials including special low melting temperature materials
- Engineered to your unique dimension, surface coating and physical property requirements
- Manufactured with state of the art processes to ensure consistent product properties
- Precision wound and packaged for safe transportation and stringer processing
- Flexible concerning cell bond options regardless of the heat source
- Manufactured according to ISO certified processes

INTERNAL REFLECTION / SHADOWING LOSS



Reduced shadowing due to small dimension of round wire.

Multi Tabbing Wire Specification		
Base material	CDA 110 / ETP-1 CDA 101 / CDA 102 / OF-1 copper	
Dimension	Ø 0.200 - 0.500 ± 0.005 [mm]	
Coating alloy	Sn60Pb40	Sn62Pb36Ag2
	Sn100	Sn96.5Ag3.0Cu0.5
	Bi58Sn42	In52Sn48
Coating thickness	2.0 – 5.0 [µm]	
	10.0 – 20.0 [µm]	
Mechanical Properties	$R_m: < 270$ [N/mm ²]	
	$R_{p0.2}: 100-160$ [N/mm ²]	
	$A = > 20$ [%]	
Spool	10S	
	H20	
	K125	
Customized specifications available upon request		



MTW before and after soldering

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