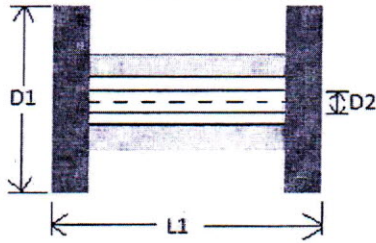


3.1

 BHEL-EPD	ELECTROPORCELAINS DIVISION BENGALURU – 560012, INDIA Purchase Specification Group: Photovoltaic Module				SPEC. NO: PS-901-01-0002	
					REV. 01	JOB NO.- STD.
					PAGE 01 OF 02	
STRING INTERCONNECT						
COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.	1.0	ITEM	: String Interconnect			
	2.0	MATERIAL	: Electrolytic tough pitched (ETP) copper as per IS 191-2007			
	3.0	WIDTH	: 5.0 ± 0.2 mm			
	4.0	THICKNESS	: 0.3 ± 0.03 mm (Basic copper Thickness)			
	5.0	COMPOSITION	: Copper purity 99.95% min.			
	6.0	CONDUCTIVITY (%IACS)	: 101%			
	7.0	SURFACE FINISH	a) Coating - Coated with 62:36:2 Tin-lead-Silver Solder. - Coating thickness: 16 to 25 microns all around. - Uniform and bright coating, good adhesion all around. b) Mechanical - Natural rounded edges.			
	8.0	CAMBER	: ≤ 5 mm / meter, uniformity in winding & with good tension.			
	9.0	FUNCTIONAL REQUIREMENT	Required for interconnecting string in PV module by soldering process.			
	10.0	PACKING & MARKING	a) To be supplied in spools of max. 16.0 Kg (Net Wt.) including Interconnector wt. 15.0 ± 0.5 Kg per spool. b) Each spool to be sealed in air tight polythene covers. c) To be labelled on the packing consignment: 1) Manufacturers Name 2) Lot No 3) Specification No. - BHEL / PS-901-01-0002 4) String Interconnect (Tin-Lead-Silver 62:36:2) 5) Dimension : $5.0 * 0.3$ mm, Coating: 16 to 25 μ 6) Date of Manufacture 7) No of spools 8) Weight a) Each Spool – on the spool b) Packed Box – net of packed spools.			
	11.0	TYPICAL SPOOL DIMENSION WITH TYPE- "H" (ALL DIMENSIONS ARE IN mm)	 ▪ Dia. $D1 \leq 270$ ▪ Dia. $53 \leq D2 \leq 54$ ▪ $L1 \leq 125$ The construction of spool should be strong enough for loading and operation.			
Revision (01):		Issued By	Prepared By	Checked By	Approved By	Date
2 nd issue		SPV Eng.	RKP 	NAR 	CNP 	29.08.2017

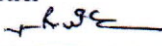
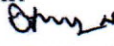
3.2

 BHEL-EPD	ELECTROPORCELAINS DIVISION BENGALURU – 560012, INDIA Purchase Specification Group: Photovoltaic Module		SPEC. NO: PS-901-01-0002	
			REV. 01	JOB NO.- STD.
			PAGE 02 OF 02	

COPY RIGHT AND CONFIDENTIAL

 The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.

12.0	PRECAUTION	a) Wound interconnector on spool shall be free from dents, scratches, burrs and loose winding. b) The Design of spools, winding and packing to ensure safe packing & avoid any possibility of handling / transit damages. c) Coating shall be uniform and free from blister / peel-off.
13.0	INSPECTION	1. Vendor to Submit inspection report for each lot / batch of manufacture for the parameters indicated in this specification viz., visual, dimensional and properties. 2. BHEL reserves the right for pre-dispatch inspection at vendor works. BHEL at its discretion may waive the pre-dispatch inspection at vendors work based on review of vendor inspection report. However, the vendor responsibility is not absolved till the material is finally inspected and accepted at BHEL. Rejections if any at BHEL, vendor to replace good quality materials confirming with this purchase specification.
14.0	INSPECTION AT BHEL	a) Visual Inspection, Dimensional and properties evaluation. b) Single sampling plan as per IS : 10673-1983, Special inspection level S-4, AQL 1.0

Revision (01):	Issued By	Prepared By	Checked By	Approved By	Date
2 nd issue	SPV Eng.	RKP 	NAR 	CNP 	29.08.2017