



BHEL-EPD

ELECTROPORCELAINS DIVISION
BENGALURU – 560012, INDIA
Purchase Specification
Group: Photovoltaic Module

SPEC. NO: PS-901-01-0010

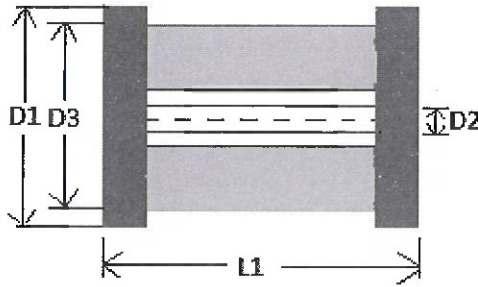
REV. 02

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CELL INTERCONNECT - 4 BB

1.0 TECHNICAL SPECIFICATION :

1.1	ITEM	Cell Interconnect – 4 BB	
1.2	MATERIAL & GRADE	Copper as per IS 191-2007 & Grade - Electrolytic tough pitched (ETP)	
1.3	WIDTH	1.3 + 0.02mm / -0.06mm	
1.4	THICKNESS	0.2 ± 0.01 mm (Basic copper Thickness)	
1.5	CONDUCTIVITY (%IACS)	101%	
1.6	ELONGATION	> 25%	
1.7	TENSILE STRENGTH (MPa)	150 ≤ TS ≤ 260	
1.8	YIELD STRENGTH (N/mm ²)	< 70	
1.9	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. - Coating should be free of spots & blister. b) Edge - Natural rounded edges. c) Edge & Corners should be free of Burrs.	
1.10	CAMBER	≤ 5 mm / meter	
1.11	TYPICAL SPOOL DIMENSION WITH TYPE- "H"(ALL DIMENSIONS ARE IN mm)		▪ Dia. D1 ≤ 152 ▪ Dia. 16 ≤ D2 ≤ 17 ▪ L1 ≤ 122
		D3 dimension shall be decided by vendor to meet the weight of spool mentioned in this specification. The construction of spool should be strong enough for loading and operation in automated Tabber and Stringer.	

2.0 WINDING OF INTERCONNECT :

2.1 The winding of interconnect in the spool shall be uniform & have good tension which shall retain till use.

Revision (02):	Issued By	Prepared By	Checked By	Approved By	Date
3 rd Issue	SPV Eng.	RKP 	NAR 	CNP 	26.05.2018

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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.		4.8 Details of the spool as per clause no. 4.8 to furnished for each spool in each lot. 5.0 PRECAUTION : 5.1 Wound interconnector on spool shall be free from dents, scratches, burrs and loose winding. 5.2 The Design of spools, winding and packing to ensure safe packing & avoid any possibility of handling / transit damages. 5.3 Coating shall be uniform and free from blister / peel-off. 6.0 TEST CERTIFICATE : 6.1 Vendor to submit inspection report for each lot / batch of manufacture for the parameters indicated in this specification viz., visual, dimensional and properties. 7.0 INSPECTION : 7.1 BHEL reserves the right for pre-dispatch inspection at vendor works. 7.2 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 is liable to replace good quality materials confirming with this purchase specification. 8.0 INSPECTION AT BHEL : 8.1 Visual Inspection, Dimensional and properties evaluation 8.2 Single sampling plan as per IS : 10673-1983, Special inspection level S-4, AQL 1.0					
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