

# HPLB 1xBeam TERMINAL SERIES



HPLB 1xBeam  
Male Terminals

## BENEFITS

- Patented system provides best in class performance over the full temperature range
- 90/180° cable orientation with welding pad
- Welding pad designed for cross sections of 16 - 35 mm<sup>2</sup>
- Aluminum and copper versions available
- 360° terminal contact

## FEATURES

- Highly efficient conductor path
- Optimized terminal normal force
- Meets USCAR-25 ergonomics
- USCAR-2 T4-V4-S3 Performance



## AVAILABLE CONFIGURATIONS

Terminal Construction	Two-piece
Connector Size (mm)	35
Wire Gage Range (AWG)	5 – 2
Wire Gage Range (mm <sup>2</sup> )	16 - 35
Genders	Male
Sealing Options	Cable Sealed
Plating Options	Sn, Ag
Mating Dimension (mm)	13.7 x 13.7



## TECHNICAL CHARACTERISTICS

Contact Resistance	0.22 mΩ	
Contact Mating Force	14 N	
Contact Unmating Force	13 N	
Mating Cycles	30 (Sn) / 50 (Ag)	
MAX TEMP	MAX VIBRATION	MAX CURRENT AT 23°C
175°C	31 G	255 A



**Royal Power Solutions**  
Powering Great Connections

Covered by USP 9,905,953 and USP 10,135,168 along with several international patents pending

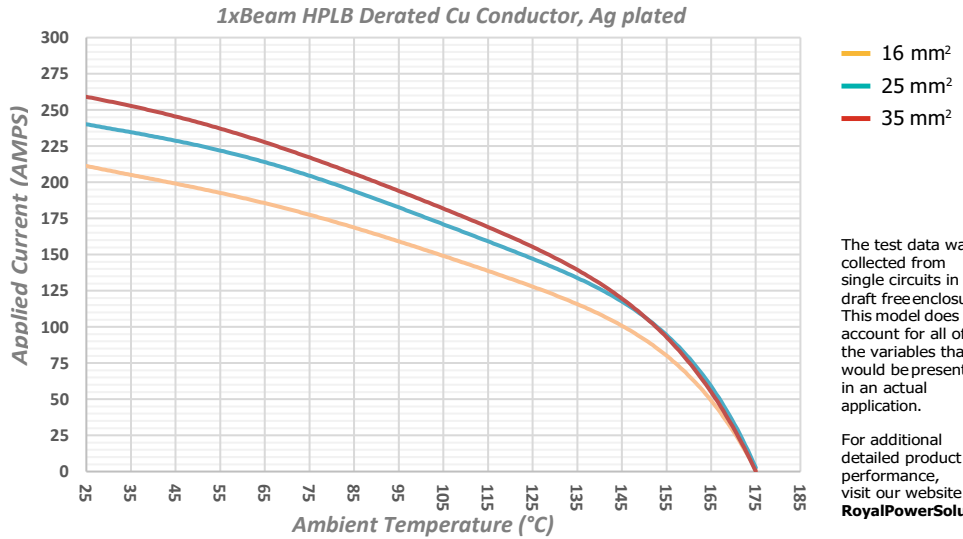
Sealing	Gender	Plating	Wire size range (AWG)	Wire size range (mm <sup>2</sup> )	Part number	Other available platings	Other available configurations
Cable Sealed	M	Ag	5 – 2	16 - 35	RP700002	Sn	180° version

### DERATING CURVES

Cable range: 16 - 35mm<sup>2</sup>  
 Crimp method: Standard  
 Contact plating: Ag  
 Test method: Single circuit in free air\*  
 Mated to: 13.7 x 13.7

\* For reference only

90° & 180° version  
 For 13.7 x 13.7  
 Female Mating Terminal



The test data was collected from single circuits in a draft free enclosure. This model does not account for all of the variables that would be present in an actual application.

For additional detailed product performance, visit our website at [RoyalPowerSolutions.com](http://RoyalPowerSolutions.com)

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact a Royal Power Solutions representative.

RP700002-JD11-12