



Electrical Connector

This electrical connector was 3D printed on an H350® 3D printer leveraging SAF™ technology using High Yield PA11 powder. PA11 provides excellent mechanical properties, with high elongation at break (EaB) allowing for a robust and reliable clip. The clip is a robust structure that cannot accidentally disengage whilst in use. The male to female interface has been designed with a poka-yoke locating function to ensure the connector fits together correctly, every time. The orientation of print has been specifically chosen to ensure the accuracy and circularity of the 5 shafts and the connector mating structures. Printing all parts in the same orientation increases the repeatability of parts and also keeps nesting simple.

System	H350® 3D Printer
Material	High Yield PA11
Build Time*	7 hrs, 57 mins (for 192 connectors)
Material Used	1.03 in ³ (16.8 cm ³)

* Printed layer time is an approximation of the time taken to print the layers that form the parts in the build only.