Media Release

Cable Talk - Small fast quiet brushless DC motor.

Cables tell the story of how much technology can be packed into a 13mm stainless steel tube.

Small brushless servo motor, sounds simple? But there is a lot more to this particular servo.

Looking at the picture the welded stainless steel construction makes the quality of the motor instantly recognisable but it's the custom Teflon cables that really tell the story. Hidden inside this 13mm diameter housing is a brushless DC motor that can continuously run at speeds of 120,000 rpm, hall sensors for rotor angle detection, an internally mounted 4096 quad count 3 channel encoder with line driver, and a high speed planetary gearhead. Including the three phase winding cables that is a total of 14 cables sealed into the 13mm sterilisable housing. To give an impression on how dynamic the servo system is, the motor itself can accelerate from zero to 40,000 rpm in under 2 milliseconds. The motors are finely balanced to achieve quiet operation below 47dBA at 50,000rpm, low vibration and minimal heat dissipation. This is supported by the 89% efficiency rating.
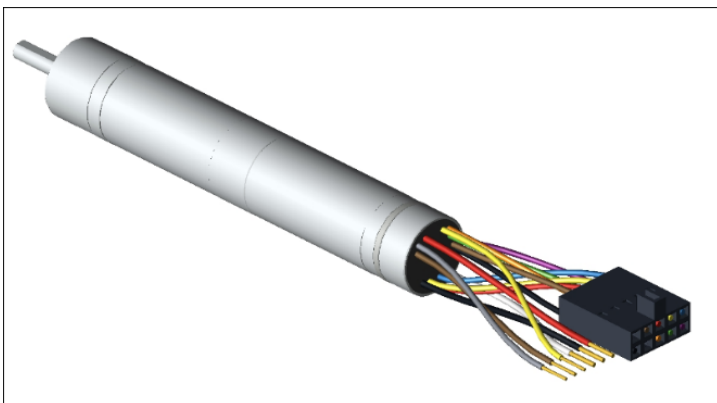
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The media release is available on the internet at: www.maxonmotor.com.au

Small fast quiet brushless DC motor © maxon motor.

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