



RLS16-5-4-A

Ruland RLS16-5-4-A, 0.313" x 0.250" Long Slit Coupling, Aluminum, Set Screw Style, 0.984" OD, 1.339" length



Description

Ruland RLS16-5-4-A is a set screw style slit coupling with 0.3125" x 0.2500" bores, 0.984" OD, and 1.339" length. It is manufactured from a single piece of material and has two sets of intermittent slit cuts allowing for a maintenance-free coupling with high torsional stiffness in relation to comparable couplings, such as beam type. RLS16-5-4-A is commonly used in precise positioning applications found in semiconductor, medical, and test and measurement equipment. This long style slit coupling has added torque and misalignment capabilities compared to the short style. RLS16-5-4-A is zero-backlash, has a balanced design for reduced vibration at speeds up to 12,000 RPM, and can accommodate all forms of misalignment with light bearing loads. It is manufactured by Reliance Precision Ltd. in their County Cork, Ireland factory from 7075 aluminum for lightweight and low inertia. RLS16-5-4-A is inventoried by Ruland and RoHS3 and REACH compliant.

Product Specifications

Bore (B1)	0.3125 in	Small Bore (B2)	0.2500 in
B1 Max Shaft Penetration	0.378 in	B2 Max Shaft Penetration	0.378 in
Outer Diameter (OD)	0.984 in	Bore Tolerance	+0.001 in / -0.000 in
Length (L)	1.339 in	Forged Set Screw	M5
Screw Material	18-8 300 Series Stainless Steel	Hex Wrench Size	2.5 mm
Screw Finish	Bright	Seating Torque	3.20 Nm
Number of Screws	4	Dynamic Torque Reversing	18.1 lb-in
Angular Misalignment	3.0°	Dynamic Torque Non-Reversing	27.4 lb-in
Parallel Misalignment	0.016 in	Peak Torque	46 in-lb
Axial Motion	0.028 in	Torsional Stiffness	33.6 lb-in/Deg
Moment of Inertia	0.01087 lb-in ²	Maximum Speed	12,000 RPM
Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
Balanced Design	Yes	Material Specification	7075-T651 Extruded and Drawn Aluminum Bar
Temperature	-110°F to 175°F (-80°C to 80°C)	Finish Specification	SurTec 650
Manufacturer	Reliance Precision Limited	Country of Origin	Ireland
Weight (lbs)	0.080600	UPC	634529301838
Tariff Code	8483.60.8000	UNSPC	31163003

Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular application.

Prop 65

 **WARNING** This product can expose you to the chemical Nickel (metallic), known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.