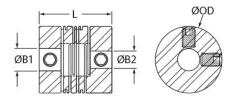




## RLS10-8MM-3/16"-A

Ruland RLS10-8MM-3/16"-A, 8mm x 0.188" Long Slit Coupling, Aluminum, Set Screw Style, 0.630" (16.0mm) OD, 0.925" (23.5mm) length





## Description

Ruland RLS10-8MM-3/16"-A is a set screw style slit coupling with 8mm x 0.1875" bores, 0.630" (16.0mm) OD, and 0.925" (23.5mm) 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. RLS10-8MM-3/16"-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. RLS10-8MM-3/16"-A is zero-backlash, has a balanced design for reduced vibration at speeds up to 17,000 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. RLS10-8MM-3/16"-A is inventoried by Ruland and RoHS3 and REACH compliant.

## **Product Specifications**

8 mm	Small Bore (B2)	0.1875 in
0.311 in (7.9 mm)	B2 Max Shaft Penetration	0.311 in (7.9 mm)
0.630 in (16.0 mm)	Bore Tolerance	+0.001 in / -0.000 in (+0.020 mm / -0.000 mm)
0.925 in (23.5 mm)	Forged Set Screw	M3
18-8 300 Series Stainless Steel	Hex Wrench Size	1.5 mm
Bright	Seating Torque	0.73 Nm
4	Dynamic Torque Reversing	6.6 lb-in (0.75 Nm)
2.5°	Dynamic Torque Non-Reversing	10.2 lb-in (1.15 Nm)
0.008 in (0.20 mm)	Peak Torque	16.8 in-lb (1.90 Nm)
0.016 in (0.40 mm)	Torsional Stiffness	12.4 lb-in/Deg (1.4 Nm/Deg)
0.0011976 lb-in <sup>2</sup>	Maximum Speed	17,000 RPM
Yes	Zero-Backlash?	Yes
Yes	Material Specification	7075-T651 Extruded and Drawn Aluminum Bar
-110°F to 175°F (-80°C to 80°C)	Finish Specification	SurTec 650
Reliance Precision Limited	Country of Origin	Ireland
0.020100	UPC	634529298213
8483.60.8000	UNSPC	31163003
Performance ratings are for guidance only. The user must determine suitability for a particular application.		
	0.311 in (7.9 mm) 0.630 in (16.0 mm) 0.925 in (23.5 mm) 18-8 300 Series Stainless Steel Bright 4 2.5° 0.008 in (0.20 mm) 0.016 in (0.40 mm) 0.0011976 lb-in <sup>2</sup> Yes Yes -110°F to 175°F (-80°C to 80°C) Reliance Precision Limited 0.020100 8483.60.8000	0.311 in (7.9 mm)B2 Max Shaft Penetration0.630 in (16.0 mm)Bore Tolerance0.925 in (23.5 mm)Forged Set Screw18-8 300 Series Stainless SteelHex Wrench SizeBrightSeating Torque4Dynamic Torque Reversing2.5°Dynamic Torque Non-Reversing0.008 in (0.20 mm)Peak Torque0.016 in (0.40 mm)Torsional Stiffness0.0011976 lb-in²Maximum SpeedYesZero-Backlash?YesFinish Specification-110°F to 175°F (-80°C to 80°C)Finish SpecificationReliance Precision LimitedCountry of Origin0.020100UPC8483.60.8000UNSPC

**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 <u>www.P65Warnings.ca.gov</u>.