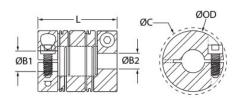




## RLC16-7MM-1/4"-A

Ruland RLC16-7MM-1/4"-A, 7mm x 0.250" Long Slit Coupling, Aluminum, Clamp Style, 0.984" (25.0mm) OD, 1.339" (34.0mm) length





## Description

Ruland RLC16-7MM-1/4"-A is a clamp style slit coupling with 7mm x 0.2500" bores, 0.984" (25.0mm) OD, and 1.339" (34.0mm) 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. RLC16-7MM-1/4"-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. RLC16-7MM-1/4"-A is zero-backlash, has a balanced design for reduced vibration at speeds up to 10,000 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. RLC16-7MM-1/4"-A is inventoried by Ruland and RoHS3 and REACH compliant.

**Product Specifications** 

Outer Diameter (OD)0.984 in (25.0 mm)Bore ToleranLength (L)1.339 in (34.0 mm)Clearance Diameter (OD)Cap ScrewM3Screw MateriaHex Wrench Size2.5 mmScrew FinishSeating Torque1.10 NmNumber of Screw (OD)Dynamic Torque Reversing13.7 lb-in (1.55 Nm)Angular Misa	<b>B2)</b> 0.2500 in t Penetration 0.378 in (9.6 mm)
Outer Diameter (OD)0.984 in (25.0 mm)Bore ToleranLength (L)1.339 in (34.0 mm)Clearance Diameter (OD)Cap ScrewM3Screw MaterianHex Wrench Size2.5 mmScrew FinishSeating Torque1.10 NmNumber of Screw (OD)Dynamic Torque Reversing13.7 lb-in (1.55 Nm)Angular Misa	t Penetration 0.378 in (9.6 mm)
Length (L) 1.339 in (34.0 mm) Clearance Dia Cap Screw M3 Screw Materi Hex Wrench Size 2.5 mm Screw Finish Seating Torque 1.10 Nm Number of Sc Dynamic Torque Reversing 13.7 lb-in (1.55 Nm) Angular Misa	
Cap ScrewM3Screw MateriHex Wrench Size2.5 mmScrew FinishSeating Torque1.10 NmNumber of Screw FinishDynamic Torque Reversing13.7 lb-in (1.55 Nm)Angular Misa	+0.001 in / -0.000 in (+0.020 mm / -0.000 mm)
Hex Wrench Size2.5 mmScrew FinishSeating Torque1.10 NmNumber of SoDynamic Torque Reversing13.7 lb-in (1.55 Nm)Angular Misa	iameter (C) MAX 1.059 in (26.9 mm)
Seating Torque1.10 NmNumber of Seating Torque ReversingDynamic Torque Reversing13.7 lb-in (1.55 Nm)Angular Misa	ial 18-8 300 Series Stainless Steel
Dynamic Torque Reversing 13.7 lb-in (1.55 Nm) Angular Misa	n Bright
	crews 2
Dynamic Torque Non-Reversing 20.8 lh-in (2.35 Nm) Parallel Misa	alignment 3°
Dynamic Torque Non-Keversing 20.0 ib-iii (2.00 Niii)	lignment 0.016 in (0.40 mm)
Peak Torque 34.5 in-lb (3.90 Nm) Axial Motion	0.028 in (0.70 mm)
Torsional Stiffness 34.5 lb-in/Deg (3.9 Nm/Deg) Moment of In	nertia 0.0107417 lb-in²
Maximum Speed 5,000 RPM Full Bearing	Support Required? Yes
Zero-Backlash? Yes Balanced Des	sign Yes
Material Specification7075-T651 Extruded and DrawnTemperatureAluminum Bar	-110°F to 175°F (-80°C to 80°C)
Finish Specification SurTec 650 Manufacture	r Reliance Precision Limited
Country of Origin Ireland Weight (lbs)	0.081300
<b>UPC</b> 634529301616 <b>Tariff Code</b>	8483.60.8000
UNSPC 31163003	
Note 1 Performance ratings are for guidance only. The us	ser 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 <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.