



RSC16-12MM-1/4"-A

Ruland RSC16-12MM-1/4"-A, 12mm x 0.250" Short Slit Coupling, Aluminum, Clamp Style, 0.984" (25.0mm) OD, 1.016" (25.8mm) length



Description

Ruland RSC16-12MM-1/4"-A is a clamp style slit coupling with 12mm x 0.2500" bores, 0.984" (25.0mm) OD, and 1.016" (25.8mm) 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. RSC16-12MM-1/4"-A is commonly used in precise positioning applications found in semiconductor, medical, and test and measurement equipment. This short style slit coupling is ideal for compact installations where the long type may not fit. It is a suitable alternative to comparatively sized disc couplings due to the ability to accommodate all forms of misalignment whereas a single disc coupling has no accommodation for parallel misalignment. RSC16-12MM-1/4"-A is zero-backlash, has a balanced design for reduced vibration at speeds up to 5,000 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. RSC16-12MM-1/4"-A is inventoried by Ruland and RoHS3 and REACH compliant.

Product Specifications

Bore (B1)	12 mm	Small Bore (B2)	0.2500 in
B1 Max Shaft Penetration	0.378 in (9.6 mm)	B2 Max Shaft Penetration	0.378 in (9.6 mm)
Outer Diameter (OD)	0.984 in (25.0 mm)	Bore Tolerance	+0.001 in / -0.000 in (+0.020 mm / -0.000 mm)
Length (L)	1.016 in (25.8 mm)	Clearance Diameter (C) MAX	1.059 in (26.9 mm)
Cap Screw	M3	Screw Material	18-8 300 Series Stainless Steel
Hex Wrench Size	2.5 mm	Screw Finish	Bright
Seating Torque	1.10 Nm	Number of Screws	2
Dynamic Torque Reversing	13.7 lb-in (1.55 Nm)	Angular Misalignment	3°
Dynamic Torque Non-Reversing	20.8 lb-in (2.35 Nm)	Parallel Misalignment	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	27.4 lb-in/Deg (3.1 Nm/Deg)	Moment of Inertia	0.0075478 lb-in ²
Maximum Speed	5,000 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)	0.053200
UPC	634529302002	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.