



info@servotecnica.it  
www.servotecnica.it



Electronics

Packaging

# AUTOMATION

Medicals

Industry

Defence

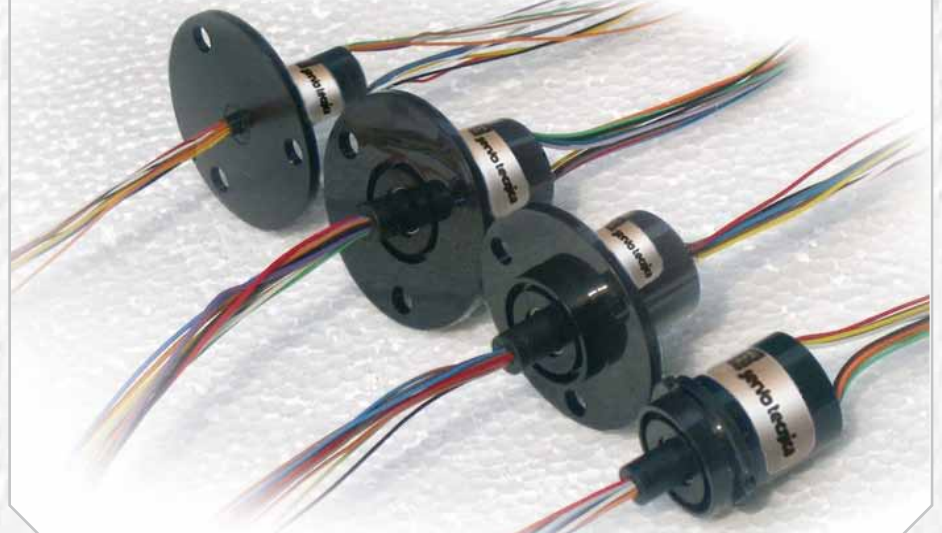
Robotics

Applications

- ▶ Compact size
- ▶ Quick delivery
- ▶ Low cost
- ▶ Ideal for video and digital signals
- ▶ Gold alloy rings and brushes
- ▶ High reliability and duration
- ▶ Can be easily customised for special applications
- ▶ Some versions available with power circuits
- ▶ Low friction torque
- ▶ Smooth rotation
- ▶ In compliance with CE and ROHS standards

## MINIATURE SLIP RINGS

**SRC Series**



Model	Circuits total nbr.	Nbr. of circuits				Outside diameter (mm)	Outside length "L" Ref. (mm)	Dimension "A" (mm)	Dimension "B" (mm)	Dimension "C" (mm)	Housing
		2A	6A	10A	RG178						
SRC 012-3-AB	3	3 *	-	-	-	12,4	14	2.8	-	4	ABS (hard plastic)
SRC 012-6-AB	6	6 *	-	-	-	12,4	14	2.8	-	4	"
SRC 012-12-AB	12	12 *	-	-	-	12,4	19,5	2.8	-	4	"
SRC 012-18-AB	18	18 *	-	-	-	12,4	23	2,8	-	5	"
SRC 022- 6-AB	6	6	-	-	-	22	19	9	5	7,8	"
SRC 022-12-AB	12	12	-	-	-	22	28	9	5	7,8	"
SRC 022-12-2P/2S-AB	4	2	2	-	-	22	28	9	5	7,8	"
SRC 022-18-AB	18	18	-	-	-	22	34	9	5	7,8	"
SRC 022-18-3P-AB	3	-	-	3	-	22	34	9	5	7,8	"
SRC 022-24-AB	24	24	-	-	-	22	42	9	5	7,8	"
SRC 022-24-4P/6S-AB	10	6	4	-	-	22	42	9	5	7,8	"
SRC 022-36-AB	36	36 *	-	-	-	22	72	9	5	7,8	"
SRC 025-30-AL	30	30	-	-	-	25	52	9	3,5	9,8	Aluminum
SRC 025-30-4P/18S-AL	22	18	4	-	-	25	52	9	3,5	9,8	"
SRC 025-30-3P/15S-AL	18	15	-	3	-	25	52	9	3,5	9,8	"
SRC 025-36-AL	36	36	-	-	-	25	60	9	3,5	9,8	"
SRC 025-36-4P/24S-AL	28	24	4	-	-	25	60	9	3,5	9,8	"
SRC 025-36-4P/16S-AL	20	16	-	4	-	25	60	9	3,5	9,8	"
SRC 025-36-4P/20S-2RG178	26	20	4	-	2	25	60	9	3,5	9,8	"
SRC 025-46-AL	46	46	-	-	-	25	73	9	3,5	9,8	"
SRC 025-56-AL	56	56 *	-	-	-	25	86	9	3,5	9,8	"
SRC 025-56-4P/44S-AL	48	44	4	-	-	25	86	9	3,5	9,8	"
SRC 025-56-4P/36S-AL	40	36	-	4	-	25	86	9	3,5	9,8	"
SRC 025-56-4P/40S-2RG178	46	40	4	-	2	25	86	9	3,5	9,8	"

Note: **SRC 012**, **SRC 022-36** and **SRC 025-56-AL**: AWG28 cables for 1A continuous - 2A peak - 240V circuits \*.

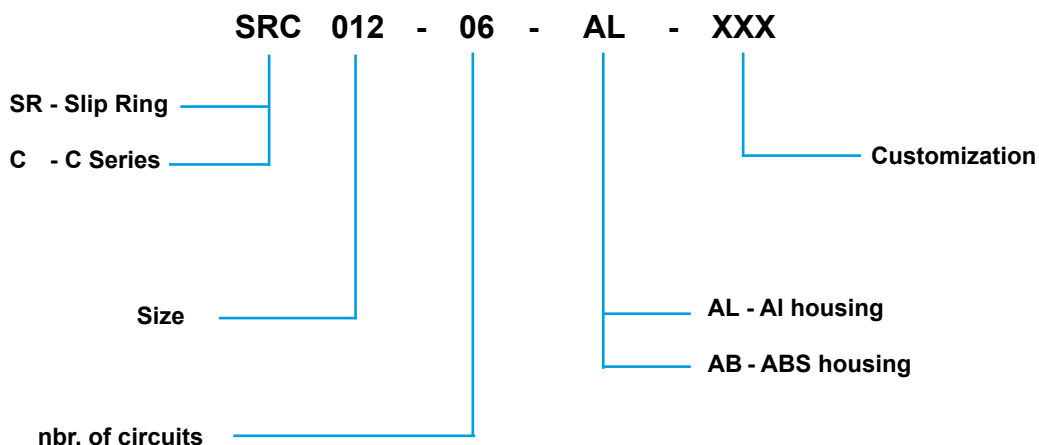
**SRC 012** and **SRC 022**: available without flange or with special flange, on demand.

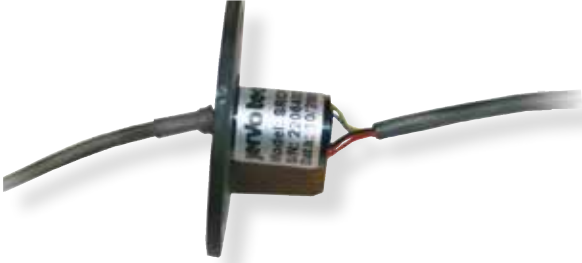
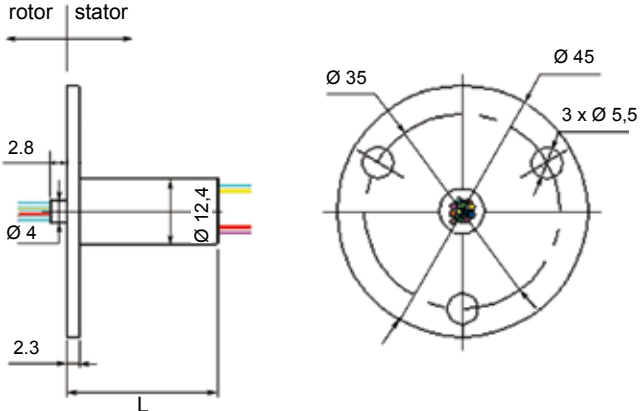

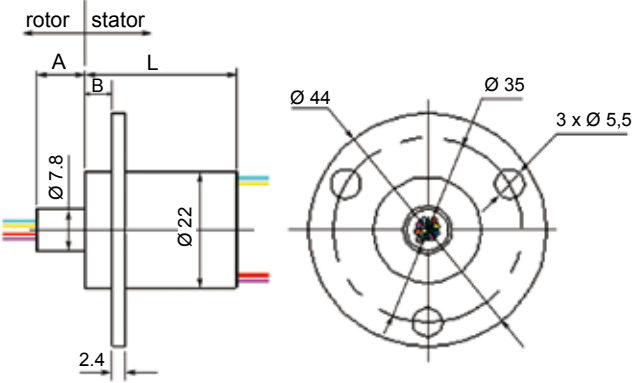

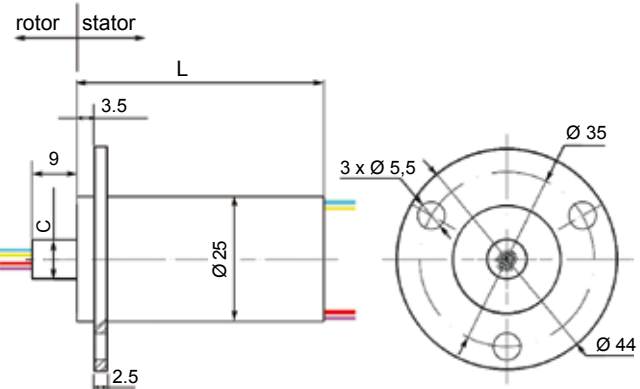
**SRC 022** and **SRC 025**: available with fibre optic rotary joint, on demand.

**SRC022** and **SRC 025**: available with 50 Ω RG178 and 75 Ω RG179 coax cable, on demand.

-40°C +80°C extended temperature versions available.

## ORDER CODE



<p align="center"><b>Standard SRC 012A</b></p>	<p align="center"><b>Dimensions (mm)</b></p>
 <p>Also available without flange on demand: <b>SRC 012C</b></p>	
<p align="center"><b>Standard SRC 022</b></p>	<p align="center"><b>Dimensions (mm)</b></p>
 <p>Also available without flange on demand: <b>SRC 022C</b>          or with reduced flange: <b>SRC 022B</b>          or with flange on head: <b>SRC 022A</b></p>	
<p align="center"><b>Standard SRC 025</b></p>	<p align="center"><b>Dimensions (mm)</b></p>
	

**OTHER MODELS AVAILABLE**

<p align="center"><b>SRT Series</b></p> 	<p align="center"><b>SRH 3899 Series</b></p> 	<p align="center"><b>Specials</b></p> 
---	--	---

## SRC Series

Slip Rings can be used in any system requiring the transmission of electrical and/or power signals to an intermittently or continuously rotating shaft.

Thanks to the small ring diameter, the **SRC Series**, grants low peripheral speed between brushes and rings, as well as reduced dynamic imbalance what means very low wear. Moreover, the use of noble metals (gold to gold alloy) assures longlasting using life, reduced electric noise and interferences among circuits, low contact electric resistance.

The above features make the **SRC Series** specially suited to transmission of critical signals, such as hi frequency signals (video, fieldbuses, etc.), very low currents and voltages (strain gages, thermocouples, measuring equipment etc.), even if versions with up to 6A and 10A circuits are available.

Conceived to deliver a flexible, cost-effective, reliable and hi-quality solution, these units are available in many standard configurations and with 6 to 56 circuits. Their compact size allows installation into small systems thus requiring high performances.

The **SRC Series** can easily meet the needs of particular applications and also be customised on demand (connectors, cables length, special cables, number of circuits, etc.).

## Standard applications

- ▶ Video systems
- ▶ Robots and downhole inspection equipment
- ▶ Manufacturing and process control equipment
- ▶ Medical equipment
- ▶ Packaging machines

## Standard features

- ▶ Voltage: 240 V<sub>DC</sub> / 240 V<sub>AC</sub> max
- ▶ Cables: silver plated - PTFE insulation and colour coded  
1A continuous/2A peak: AWG28; 2A: AWG26; 6A: AWG20; 10A: AWG16
- ▶ Cable length: 250 mm. standard (other lengths on demand)
- ▶ Dielectric strength: 500 V<sub>AC</sub> at 60 Hz
- ▶ Insulation resistance: > 1000 M $\Omega$  / 500 V<sub>cc</sub>
- ▶ Noise: < 100 m $\Omega$  at 6 V<sub>cc</sub> and 50 mA (at 5 rpm)
- ▶ Nominal speed: 250 rpm (for higher speed up to 600 rpm please contact us)
- ▶ Temperature: -20°C to +80°C (option: -40 to +80°C)
- ▶ Bearings: miniature, precision steel ball bearings
- ▶ Mounting method: standard flange
- ▶ Contact: gold to gold (alloy)
- ▶ Rating life: 10<sup>7</sup> revolutions (depending on speed and on enviromental conditions)
- ▶ Protection: IP 51