

SLIP RINGS

***Power and control
for rotating machinery***



For the electrification of:

- **Crane & material handling**
- **Packaging machines**
- **Logging machinery**
- **Environmental & agricultural equipment**

CONDUCTIX
INSUL 8

Ⓞ DELACHAUX GROUP

www.conductix.com.au

VL SERIES SLIP RINGS

The 'ValuLine' (VL) series slip rings are the slip rings of choice for applications that demand a quality slip ring at an economical price.

Conductix stock a range of these popular 35A / 600V rated, 1.5" bore slip rings, in both unenclosed and enclosed formats.

Features include:

- **35A / 600V rating**
- **1.5" bore size**
Assembly mounts on 1.5" (38mm) stub shaft.
- **Finely machined copper alloy rings**
- **1st ring is earth ring**
Grounded to drive collar / shaft.
- **Long wearing copper graphite brushes**
1 brush per ring, mounted via stainless steel spring.
- **Integral terminal blocks**
For easy wiring connection to rings and brushes.
- **Painted steel enclosure**
Water proof and dust proof (NEMA 4 – IP56 rated).
- **Plastic-housed 'irrigation' slip ring available**
Dome-topped ABS plastic housing (11 ring version only).



The following units are stocked & available for immediate delivery:

Unenclosed slip ring assemblies

- VL-D04T 4 ring (3 + E)
- VL-D06T 6 ring (5 + E)
- VL-D08T 8 ring (7 + E)
- VL-D11T 11 ring (10 + E)

Enclosed slip ring assemblies

- VLR-D04T 4 ring (3 + E) in steel enclosure
- VLR-D06T 6 ring (5 + E) in steel enclosure
- VLR-D08T 8 ring (7 + E) in steel enclosure
- VLR-D11T 11 ring (10 + E) in steel enclosure
- CA13235-11 11 ring (10 + E) in moulded ABS plastic enclosure

R SERIES SLIP RINGS

The R series slip rings are high quality, feature-packed slip rings that can be offered in a large variety of formats.

These slip ring assemblies are made to specific application requirements.

Standard features include:

- **Large range of bore sizes**
From 1.5" bore up to 10.0" bore.
- **Large range of rings**
From 5A up to 600A rings.
- **Combined power and control**
Can combine various power, control and signal rings within the one slip ring assembly.
- **Heavy duty insulated brush holders**
Brush holders securely fix to square brush posts to resist twisting.

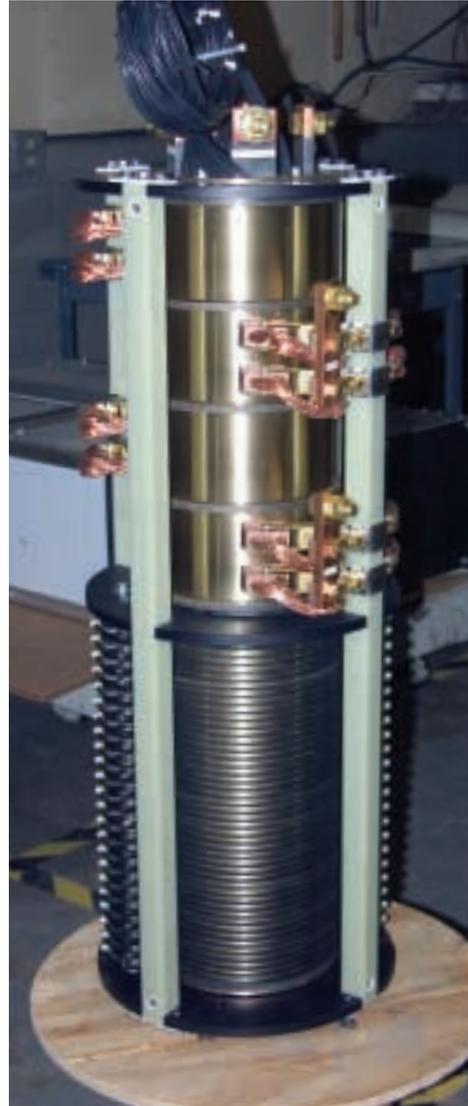
The advantage of the R series is the ability to choose from a wide variety of optional features, to ensure a close match to the customer's requirements. The following demonstrates some of the optional features relating to various areas of the slip ring.

Bore size:

- Standard bore size A = 1.5" (Most common size and most economical).
- Other sizes available are B = 2.5", C = 3.0", D = 3.5", E = 4.0", F = 4.5", G = 5.0", H = 6.0", J = 8.0", K = 10.0", Z = Special bore.

Slip rings:

- Wide range of rings available. (See table next page)
- Copper alloy with copper graphite brushes.
- Silver-plated rings with silver graphite brushes.
- Double brush (i.e. 2 brushes per ring) can be specified.
- Earth ring can be specified (1st ring can be grounded to drive collar).
- Cross talk shield (groundable barrier disc) can be specified between signal and power rings to help prevent induced noise in signal rings.



R SERIES SLIP RINGS



Wiring connection

- For wiring connection to rings, the unit can be specified with top terminal block or alternatively with core leads extending from the unit (core lead length can also be specified).
- Wiring connection to brushes is via terminal blocks.

Slip ring enclosures

R series slip rings can be supplied unenclosed, or alternatively in one of the following types of enclosures:

- Standard painted steel enclosure (NEMA 4 – IP56 rated).
- Stainless steel enclosure (NEMA 4 – IP56 rated).
- Stainless steel wrap-around cover (NEMA1 – IP20 rated).
- Explosion-proof enclosure.
- Integrated junction boxes for brush and ring wiring available.

Through-shaft

- Air or water 'through-shaft' can be specified on enclosed slip rings.
- Bore size of through shaft either 1.0", 0.75" or 0.50" (NPT thread ends).
- 90° rotary joint can also be provided on end of through-shaft.

Bearing on ring carriage

- For speeds up to 125 rpm maximum, the standard bronze sleeve bushing is suitable.
- For higher speed applications, up to 500 rpm maximum, optional ball bearing can be specified on ring carriage.

Anti-condensation heater

- A thermostat-controlled heater strip can be specified inside the slip ring enclosure if condensation build-up is expected.



R Series Slip Ring Amperage / Voltage and Brushes:

Ring designation

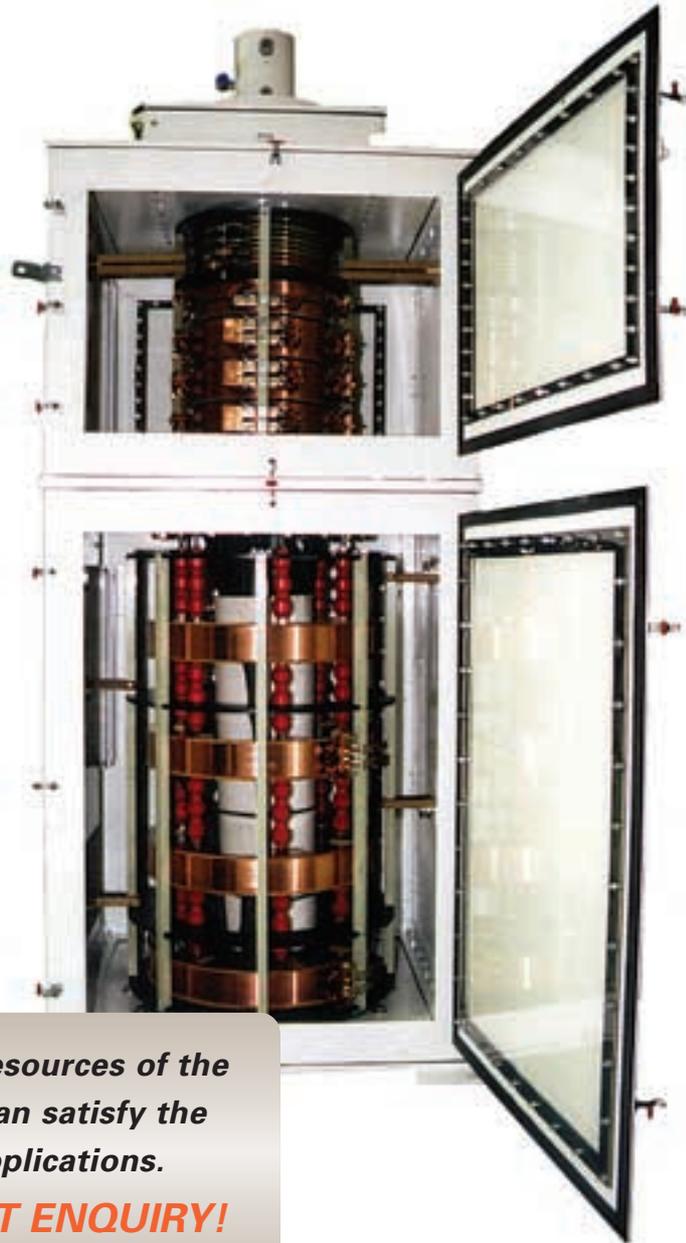
Brushes

S = 5A silver plated ring, 250V	Dual stainless steel spring wire
A = 10A silver plated ring, 250V	Silver graphite brush (Single)
B = 15A copper alloy ring, 250V	Copper graphite brush (Single)
C = 35A copper alloy ring, 250V	Copper graphite brush (Single)
D = 35A copper alloy ring, 600V	Copper graphite brush (Single)
E = 75A copper alloy ring, 600V	Copper graphite brush (Single)
F = 110A copper alloy ring, 600V	Copper graphite brush (Single)
G = 150A copper alloy ring, 600V	Copper graphite brush (Single)
H = 225A copper alloy ring, 600V	Copper graphite brush (Single)
J = 300A copper alloy ring, 600V	Copper graphite brush (Single)
K = 200A copper ring, 600V	Copper graphite brush (Double)
L = 400A copper ring, 600V	Copper graphite brush (Double)
M = 600A copper ring, 600V	Copper graphite brush (Double)
X = Optional cross talk shield	

CUSTOM SLIP RINGS

Conductix can offer customised slip rings for a wide variety of applications. Some examples of customised slip rings are as follows:

- **High voltage slip rings**
For applications above 600V.
- **Explosion-proof slip rings**
Certain sizes and enclosures are UL listed and feature CENELEC approval.
- **Slip rings for cable reels**
Slip rings for use in cable reels; both motorised and spring-operated.
- **Fibre-optic transmitters**
To pass fibre-optic signals at a rotating interface.



Conductix, with the combined resources of the worldwide Delachaux Group, can satisfy the most demanding slip ring applications.

WE WELCOME YOUR NEXT ENQUIRY!



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