

## CA18-TYPE (R28)

Connector for up to 225 kVDC <sup>(1)</sup>



### DESCRIPTION

The spring-loaded plug is made of high-insulation EPDM rubber and stainless steel flanges. A cable flange (to be ordered separately) is required to install the plug in its receptacle. The best performance is guaranteed by using Varex connectors and receptacles.

Please contact us to find the most suitable type for your application.

### FEATURES

- A selection of small-diameter, highly flexible cables.
- High-temperature resistant silver-plated contact tip
- High-quality EPDM rubber with a smooth cone surface ensures reliable connections
- Spring-loaded version: Visible indicator if compression is Too low / OK / Too high
- Sturdy internal cable fixation and grounding
- UL recognized component <sup>1)</sup>
- REACH and RoHS Compliant <sup>2)</sup>

### APPLICATIONS

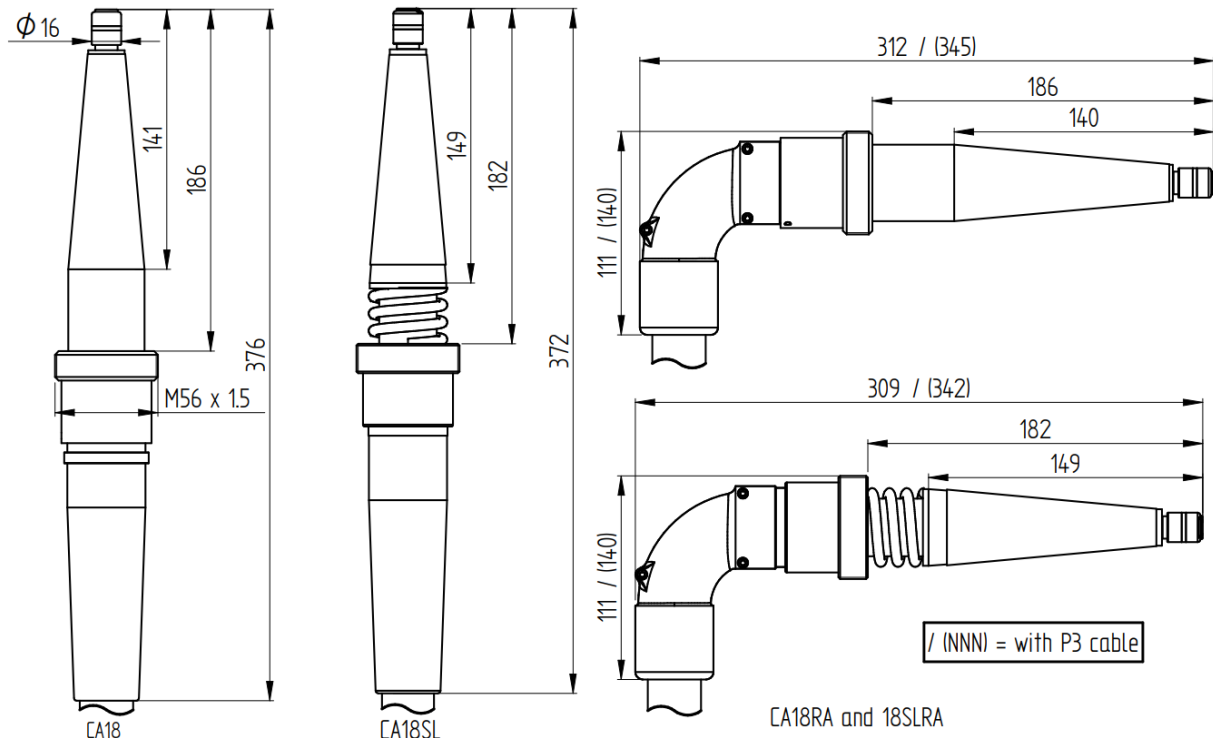
Varex CA18-type connectors are 3-contact industrial-style R28 connectors rated for up to 225 kVDC. Type-tested under the most severe conditions to ensure performance under the most demanding conditions.

This connector is available in spring loaded or non-spring loaded (conventional) in both straight and right-angle configurations.

### CABLE TYPE

- N3 (3 conductors, 160 kVDC)
- P3 (3 conductors, 250 kVDC)

## CONSTRUCTION CA18-TYPE (R28) (Dimensions in mm)



### Technical Specifications

Number of contacts	3
Contact rating default contact tip	1.5kVDC / 15A
Contact rating broad band contact tip	3kVDC / 15A
Rated voltage <sup>1)</sup>	225 kVDC
Maximum continuous operating temperature	80 °C (65 °C non SL)

- <sup>1)</sup> Depend on cable type & user application (contact us for more info).
- <sup>2)</sup> Compliance related to the maximum allowable concentrations and applicable exemptions for the restricted substances.

## INSTALLATION

When installing the plug into the receptacle, a thin layer of silicone grease must be applied to the rubber cone to prevent high voltage arcing along the connector surface. A durable, high-voltage-proof installation requires sufficient compression of the plug. Therefore, the spring-loaded version has a visible indicator of the compression force.

Please refer to our installation guidelines for more information.

*The data in this document is for reference only. Contents in this document are subject to change without notice.*

### Test Data

DC durability (RT)	310kVDC >24h (P3)
AC-50Hz (PD)	95kVAC-1h (P3)
Pulses to GND	250kVDC-100x (P3)
DC-cycle (40kV/s rise)	310kVDC-1000x (P3)

## MORE INFORMATION

Varex Imaging Nederland B.V. is part of Varex Imaging Corporation a leading innovator, designer, and manufacturer of X-ray imaging components, which includes tubes, digital flat panel detectors and other image processing solutions, which are key components of X-ray imaging systems.

## TAILORED SOLUTIONS

In case our existing offering doesn't fit your needs, we have the inhouse capabilities to design a HV-connection and / or cable exactly as you need.

For more information, please contact a Varex Imaging sales representative in your territory. Contact details are available at [www.vareximaging.com/contact/](http://www.vareximaging.com/contact/).



USA HEADQUARTERS  
Salt Lake City, UT  
P: +1-801-972-5000

Connect & Control Solutions  
Doetinchem, Netherlands  
Tel: +31 314-799870  
[Netherlands.CNC@vareximaging.com](mailto:Netherlands.CNC@vareximaging.com)

For a complete listing of our global offices, visit [www.vareximaging.com](http://www.vareximaging.com)