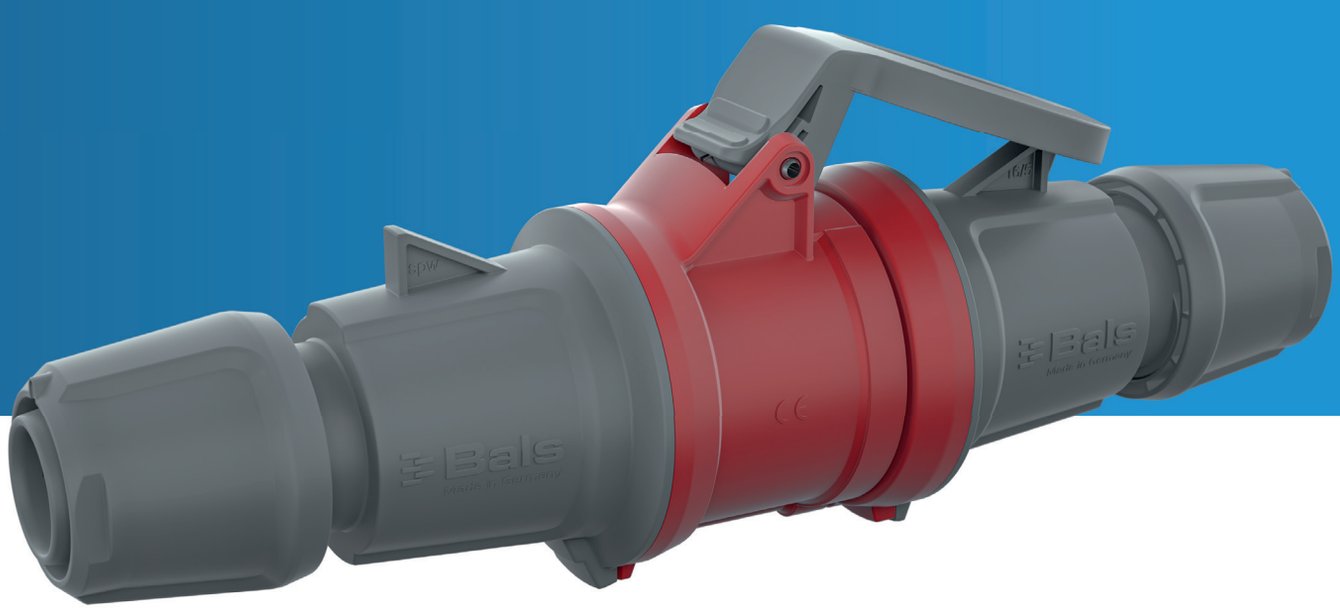
FULL OF

# INNOVATION

NEW

**Sustainable. Reliable. Innovative.**




INNOLINQ

Bals

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# INNOLINQ

Our new, pioneering industrial plugs and sockets combine the highest demands for innovative technology, with resource-conserving production and the highest environmental standards providing products of the highest quality giving the "Made in Germany" seal of approval. The new design has been engineered for improved ergonomics, maximum stability, larger contact areas as well as reduced plugging and pulling forces. INNOLINQ contains no lead and is produced using only recyclable materials, thereby fulfilling the principle of sustainable production.

## Resource-saving

INNOLINQ with QUICK-CONNECT contains no lead and is produced using only recyclable materials, thereby fulfilling the principle of sustainable production. It satisfies the strict planned EU REACH & RoHS directives of the future.

## VDE-certified

The VDE symbol is the guarantee for tested, safe and standards-compliant products, including of course INNOLINQ. We monitor and document the high product standards in our own testing laboratory using selected thermal, mechanical and electrical tests.

## Secure connection

INNOLINQ with QUICK-CONNECT guarantees a secure termination and thanks to the spring-connection technology, is resistant to vibrations and temperature fluctuations. The terminal visually and audibly locks the inserted stripped conductor at the touch of a finger ensuring a reliable and permanent connection.

## Improved ergonomics

The improved contours of the housing and cable gland simplify handling and offer a perfect grip in every situation. An ideally placed recess for the thumbs further simplifies the opening of the connector cover. This shows that a modern design with simple handling is possible with this product range.

## Extremely robust

Industrial plugs and sockets must be able to withstand extreme mechanical, thermal and chemical stresses. We therefore manufacture INNOLINQ from selected, recyclable and yet extremely durable materials – for maximum longevity and reliability.

## Screwless installation

Install without tools thanks to QUICK-CONNECT connection technology. It's this easy: unscrew the housing, feed the connection cable through the open MULTI-GRIP cable gland. Guide the stripped conductors into the open terminals and lock in place with a simple click. Securely tighten housing parts and MULTI-GRIP cable gland.

Improved housing contours ensure simple handling, perfect grip and modern design.

The new INNOLINQ plugs and sockets are available from 16A to 32A.

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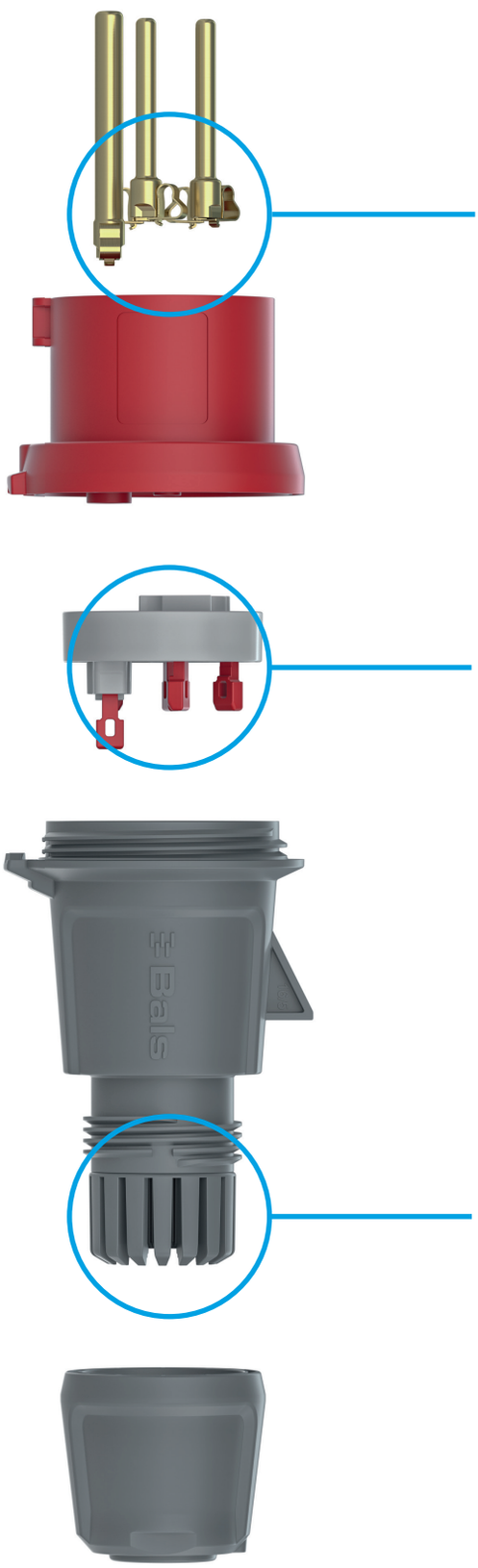
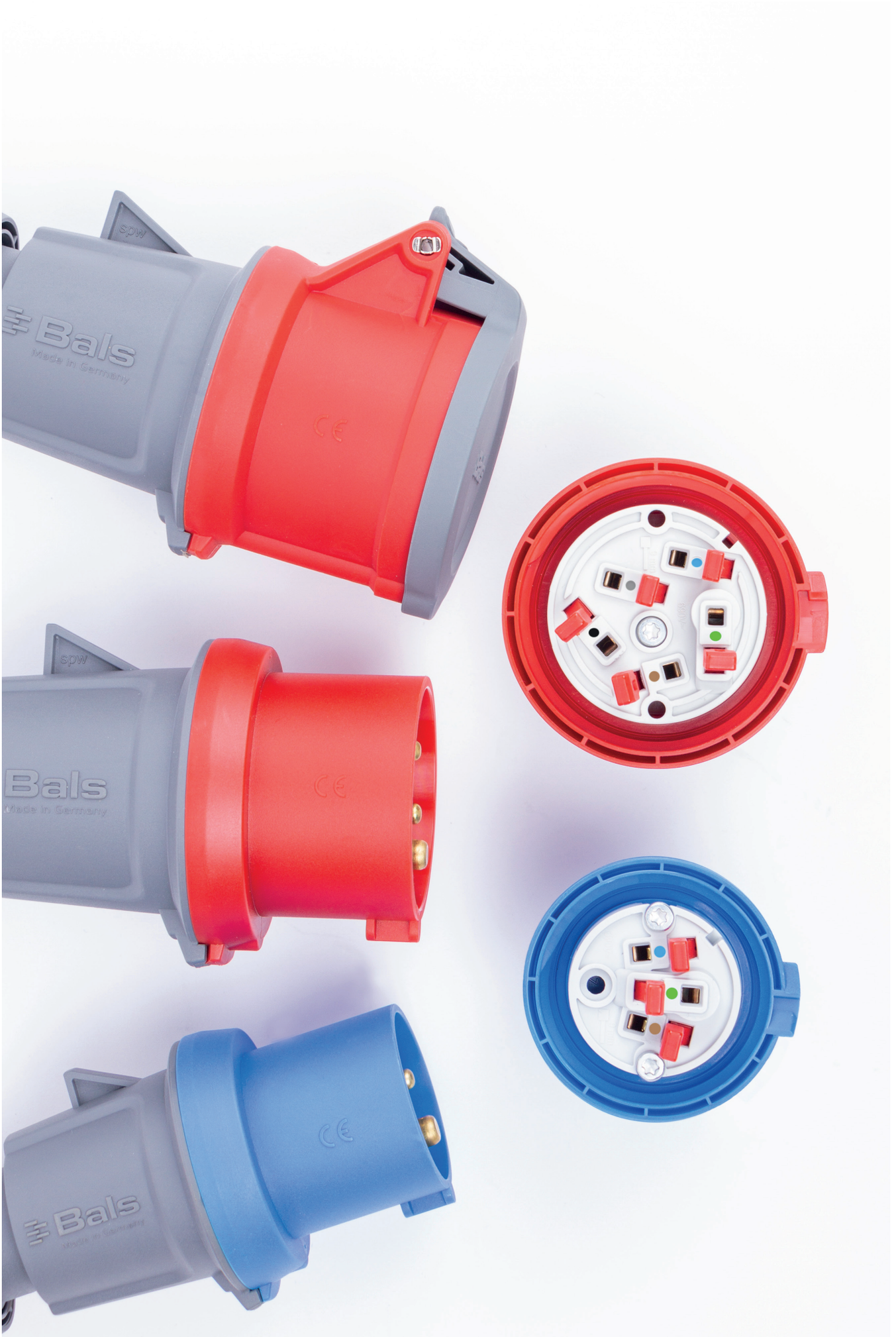
## Sustainable. Reliable. Innovative.

The new INNOLINQ series is the result of intensive research and development. The KONTEX-ULTRA connection technology is completely new – with contacts that are not only lighter than before, but also significantly reduce resource consumption – while maintaining stability and conductivity.

In addition, two proven Bals technologies that previously set new standards on the market were further improved – the patented QUICK-CONNECT connection technology and the MULTI-GRIP cable gland system.

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# QUICK CONNECT

The classic - now even better. Thanks to the improved QUICK-CONNECT technology installation and termination is now even more secure.

## Vibration-resistant

QUICK-CONNECT is insensitive to shocks, vibrations and temperature fluctuations. Thanks to spring-connection technology, the optimum connection of conductor and terminal can withstand even the most rigorous long-term vibration tests of independent testing institutes. A big advantage over standard screw connections, which tend to be prone to failure.

## Greater contact surface

The newly designed spring terminal features an improved contact angle. The contact surface is thereby increased by nearly 70 %. This ensures a significantly better connection between conductor and contact.

## Secure connection

INNOLINQ with QUICK-CONNECT guarantees a secure termination and thanks to the spring-connection technology, is resistant to vibrations and temperature fluctuations. The terminal visually and audibly locks the inserted stripped conductor at the touch of a finger ensuring a reliable and permanent connection.

## Maintenance-free

QUICK-CONNECT is completely maintenance-free. The contact of the spring is optimised and preset ensuring a permanent constant pressure on the copper. Our conductor clamping thereby guarantees an optimum connection over the entire lifetime. Frequent inspections as with screw contacts are not necessary.

## For all copper conductors

On delivery, the QUICK-CONNECT terminals are open and are suitable for copper conductors of all types and qualities – irrespective of conductor diameter and insulation type. Whether solid or flexible, with or without ferrule – the terminal accepts all copper conductors.

Insert the stripped conductor in open terminals and close with a click.

Easy opening of the clamp with a standard screwdriver.

# KONTEX ULTRA

Extra stable, patented and REACH- & RoHS-compliant - that is the new KONTEX ULTRA connection technology from Bals.KONTEX-ULTRA was developed under the title „Green-Connect" to meet the environmental demands of an evolving industry.

## Reach- & ROHS-compliant

INNOLINQ with QUICK-CONNECT satisfies the strict planned EU REACH & RoHS directives of the future.

## Reduced plugging and pulling forces

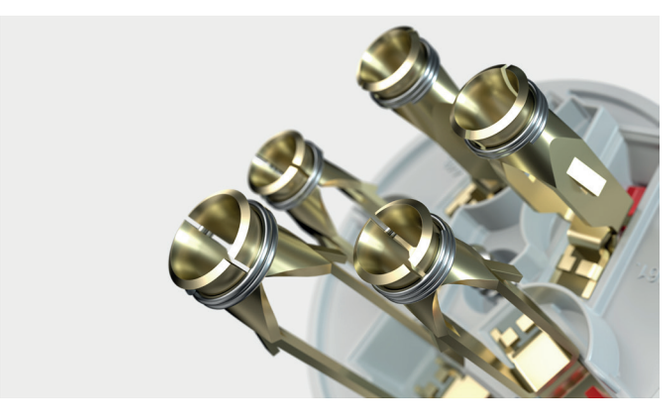
Smooth surfaces on the pin and an improved sleeve design reduce the insertion and withdraw forces when plugging in or unplugging our INNOLINQ plug and socket systems. Furthermore, increased fitting accuracy simplifies handling considerably.

## Resource-saving

INNOLINQ with QUICK-CONNECT contains no lead and is produced using only recyclable materials, thereby fulfilling the principle of sustainable production. It satisfies the strict planned EU REACH & RoHS directives of the future.

## Improved conductivity

Our INNOLINQ products guarantee optimum contact and conductivity. This is ensured by a specially developed base material in combination with a highly complex strain-hardening technology of the contacts.



A special base material and highly complex, reinforced contacts improve the conductivity.

KONTEX-ULTRA now available in versions 16A and 32A.

# MULTI GRIP

The original. We have revised the proven MULTI-GRIP principle -the cable entries now take even larger cable cross-sections.

## Integrated strain relief

The universal MULTI-GRIP cable gland securely holds and seals a wide range of cable diameters. Simply turn to close, finished! Our MULTI-GRIP system fastens the cable and simultaneously ensures secure strain relief – without damaging the cable.

## 67 IP67-certified

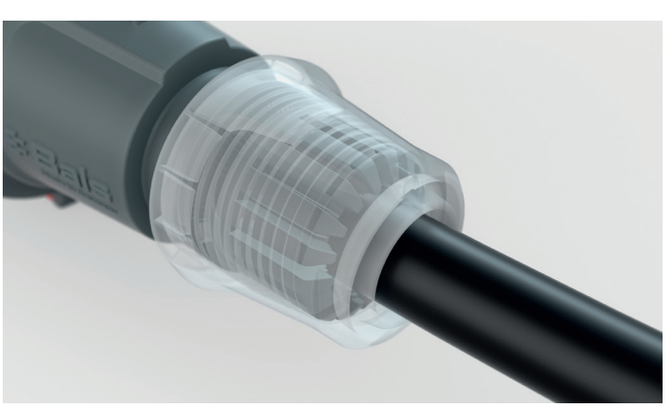
The MULTI-GRIP cable glands achieve a minimum protection rating of IP67. The exterior strain relief system sits against the captive seal and prevents the penetration of water and dirt into the connection cavity of the plug system even if the cable is moved.

## Maximum tensile strength

The tensile strength of our MULTI-GRIP cable gland exceeds the values specified in standards IEC 60309, EN 60309 and VDE 0623 many times over. Condition control and any maintenance of the strain relief can be performed from the outside without opening the plug system.

## Larger cable cross sections

We have completely redesigned the cable entries of the INNOLINQ series of plug and socket systems to offer even more flexibility in use. The positive result: even larger cable diameters can now be used than in previous designs.



The MULTI-GRIP system fastens cables of various cross sections and ensures a secure strain relief.

The cable entries now accept even larger cable cross sections – for even more flexibility.

## Bals – Simply. Well. Connected.

For over 60 years we have been producing CEE plug and connectors for the world market. That means quality you can always rely on. Our products prove themselves around the globe, in the most diverse applications.
„Made in Germany" stands for a quality standard that offers you the highest level of safety.

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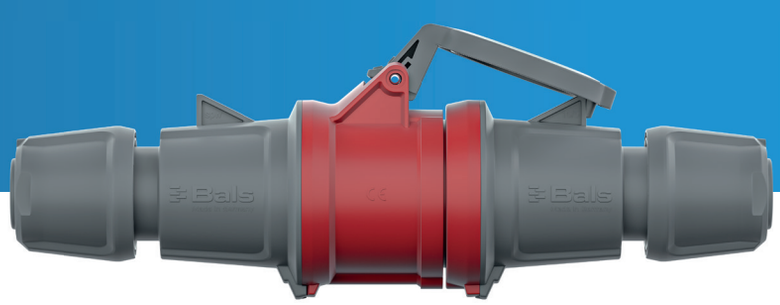


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