

 **MADE  
IN  
GERMANY**

**THE  
STANDARD**  
IEC 61076-2-012



**Y-CIRC**  
S E R I E S



**Y-CIRC M**  
**M12 PUSH-PULL**



**Y-CIRC**  
S E R I E S

## Y-CIRC M M12 PUSH-PULL

The M12 push-pull with inner locking ensures quick and reliable locking without screwing. The cable-side connector engages deeply into the device box from the inside with the locking hook. As a result, the push-pull system requires exactly the same installation space as a common M12 connector with screw locking.

### BACKWARDS COMPATIBLE

The push-pull device socket fits both M12 push-pull plugs and conventional plugs with M12 screw thread.

### ROBUST & SAFE

Long locking hooks lock deep inside for maximum robustness – even with torsional loads. An intelligent sealing system seals against media entry as early as possible.

### BLIND MATEABLE

Correct locking is confirmed by haptic and acoustic feedback.

### TOOL-FREE

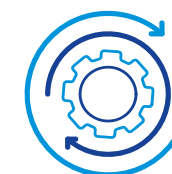
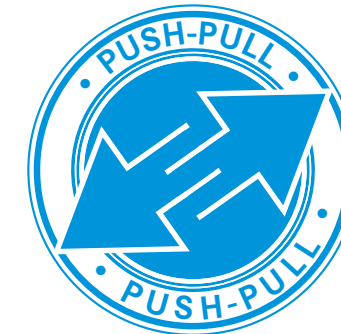
The push-pull connector is locked by hand, no tools needed.

### SPACE-SAVING

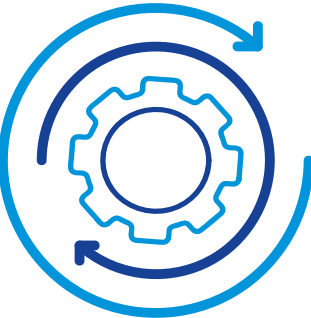
Same space requirement as M12 with screw locking. The socket contour can be flush mounted and fully integrated into the device.

### TIME SAVING

Up to 75 %-time savings compared to M12 connectors with screw locks.

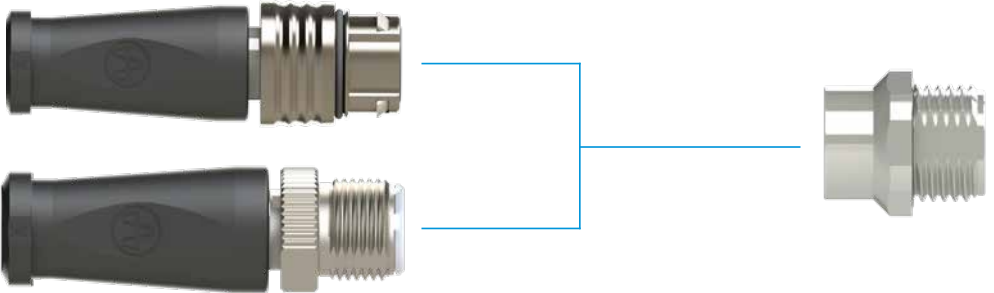


FEATURES AND ADVANTAGES



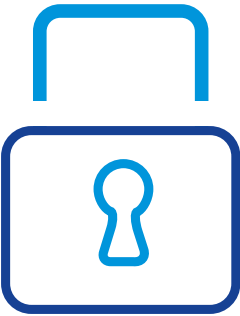
BACKWARDS COMPATIBLE

All Y-Circ M connectors are IP65 / IP67 water and dust protected and use independent sealing concepts for screw and push-pull connectors. Mixed use of the connectors is therefore reliably possible.



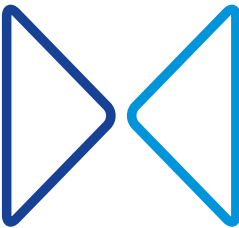
TOOL-FREE

By simply plugging it in, the mechanism automatically locks into the corresponding socket. A special tool to ensure the correct torque is not necessary.



ROBUST & SAFE

The particularly long locks of the cable connector brace against the threaded segments of the device socket. This guides the system and makes it mechanically extremely robust. This offers significant advantages when exposed to torsional loads and rotational forces. Shield transmission is always ensured, even under vibration.



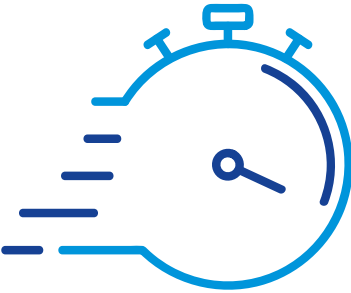
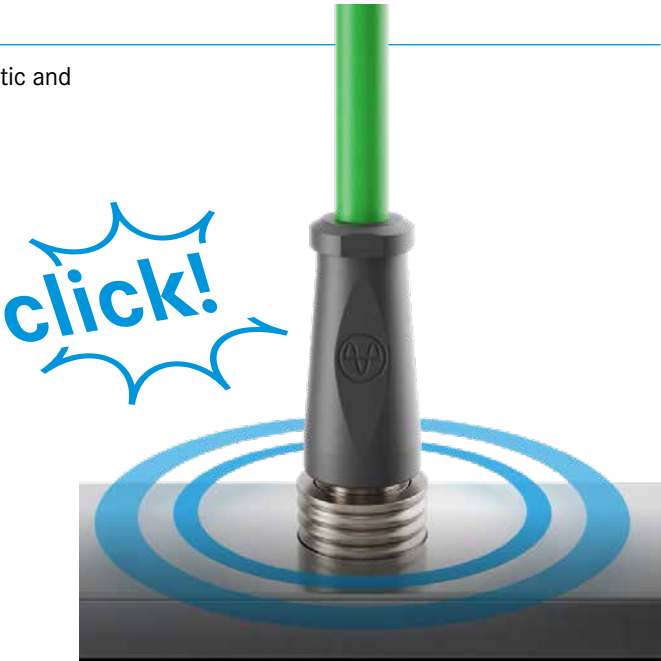
SPACE-SAVING

Due to the innovative locking mechanism, limited installation space can be used optimally. Due to the higher possible packing density, more connectors can be accommodated in the same space. In addition, the push-pull connector is no larger than a connector with a screw variant.



BLIND MATEABLE

Correct locking is confirmed by haptic and acoustic feedback.



TIME SAVING

The locking hooks can save considerable time when wiring large systems. By using Y-Circ M12 Push-Pull one can expect savings of at least 75%.

8 seconds per screwing process

2 seconds per screwing process



X = Identical installation space

X

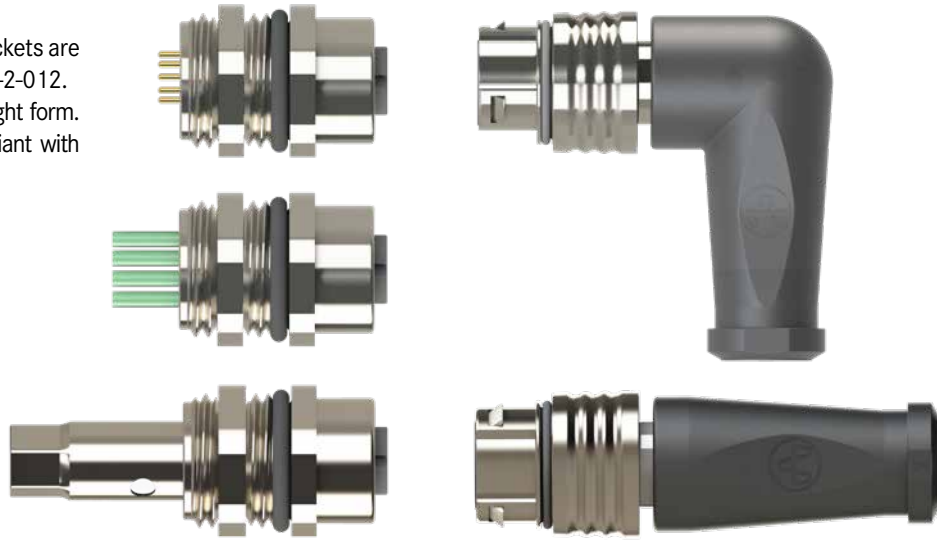
X



# CIRCULAR CONNECTOR VARIANTS

The portfolio of Yamaichi Electronics Germany offers you many other alternatives, in different codings and designs. This allows you to connect the molded metric push-pull circular connectors to all common device-side sockets.

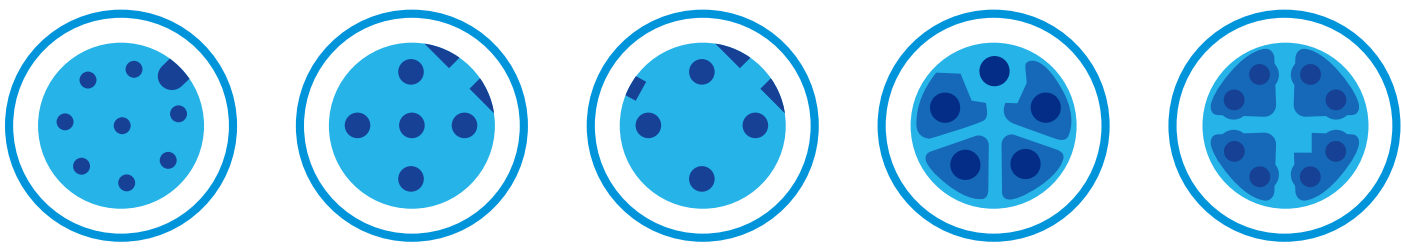
Both the Y-Circ M push-pull variants and the sockets are standardized according to IEC standard 61076-2-012. The connectors are available in angled and straight form. The sockets can be provided as a standard variant with single wires, PCB contacts or cable outlets.



Another option for integrating the M12 push-pull mechanism are two-part socket solutions. With a simple press-in sleeve, any commercially available insulator can be made push-pull capable.

You can also benefit from the flexibility of our company, with production in Germany and the affinity for customer-specific solutions.

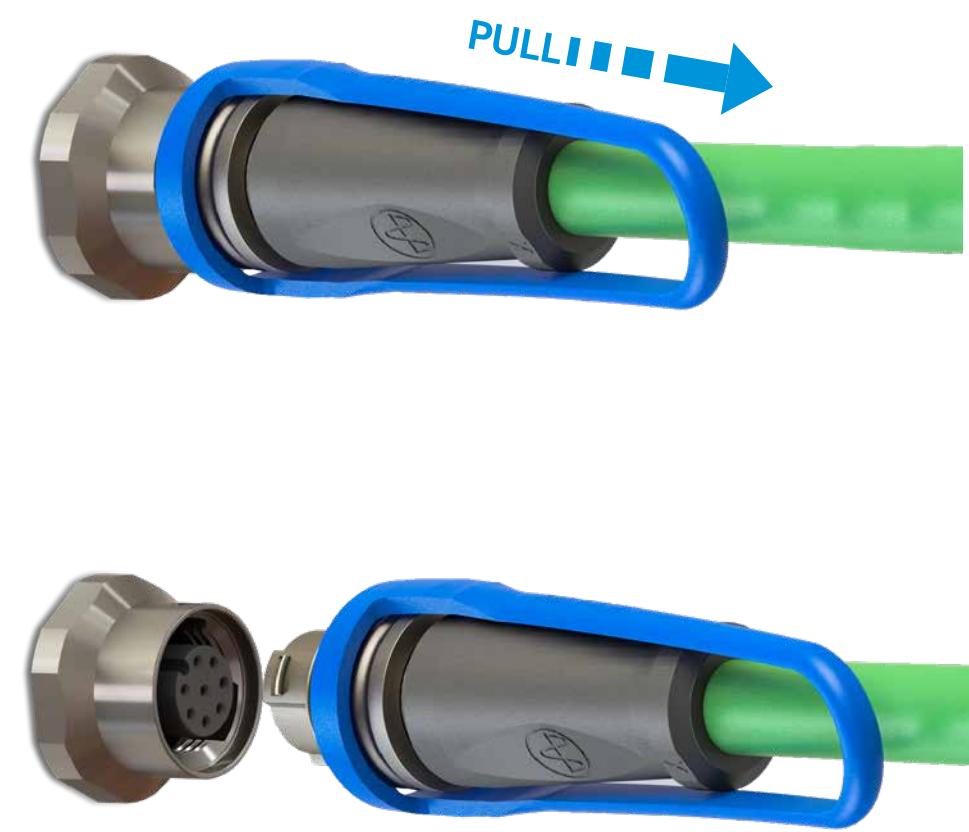
# CODINGS & APPLICATIONS



- A**  
Sensors  
Actuators  
DeviceNet  
I/O link
- B**  
Profibus-  
Applications
- D**  
Industrial Ethernet  
Profinet  
Ethernet/IP  
EtherCat  
Max. 100 Mbit
- L**  
Power transmisson  
(up to 16 A / 63 V)
- X**  
CAT6<sub>A</sub> High-Speed  
Data transfer  
(up to 10 Gbit)

# PUSH-PULL UNLOCKING AID

The unlocking aid is compatible with all straight and angled M12 push-pull connectors. The retrofittable accessory is available in different colors and can therefore also serve as color coding. The optional release aid enables the push-pull circular connector to be unlocked even in recessed installation spaces, as it is no longer necessary to reach to the front part of the housing. This means that limited installation space can be used even more efficiently.



# Y-CIRC CONFIGURATOR

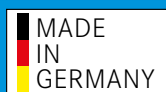


# ADVANTAGES

- Quick & easy configuration
- Download of data sheets, including all relevant information
- 3D models available online
- Assembly instructions
- Save specific Configurations



# Home of the Y-CIRC M



Manufacturing in Germany brings many customer benefits: Short delivery routes, hardly any lead times and fast on-site production are some of them. This enables us to respond to individual customer requirements and specifications at short notice and to implement them in a tailor-made manner. For example, we offer different cable assemblies in connection with the Y-Circ M circular connector. We develop specific circular connectors for our customers according to their requirements and can also implement these in smaller quantities.

## Y-CIRC M M12 PUSH-PULL

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The specifications are subject to change without notice.

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