

Y-CIRC
S E R I E S



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





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.

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.

ROBUST

All important components are made of metal and the connector is optimally protected against external stress due to its design.

BLIND MATEABLE

Correct locking is confirmed by haptic and acoustic feedback.

TOOL-FREE

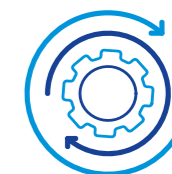
The push-pull connector is locked by hand, no tools needed.

TIME SAVING

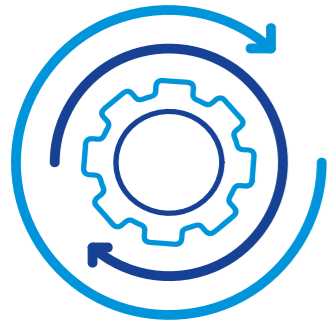
Up to 75 % time savings compared to M12 connectors with screw locks.

SPACE-SAVING

Less space required than with standard-M12, as there is no need for tools. The socket contour can be flush-mounted and fully integrated into the device.

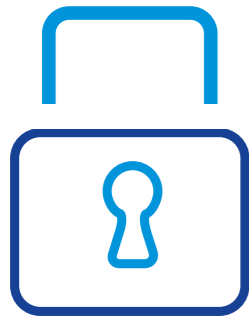
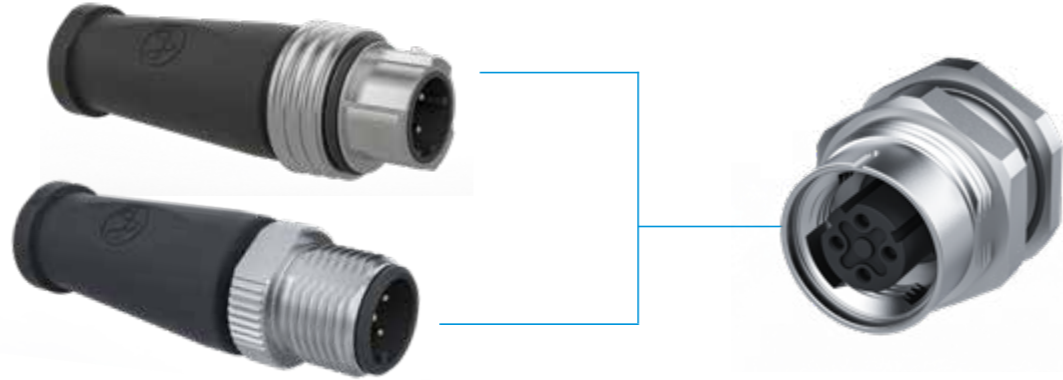


FEATURES AND ADVANTAGES



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. This eliminates the need for complex special solutions in the socket. Mixed use of the connectors is, therefore, reliably possible.



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.



ROBUST

All important components are made of metal and, due to its design, the plug is optimally protected against external loads. It is slip-proof and withstands even tough applications. In addition, all variants are shielded against electromagnetic radiation and are therefore optimally suited for the transmission of data.



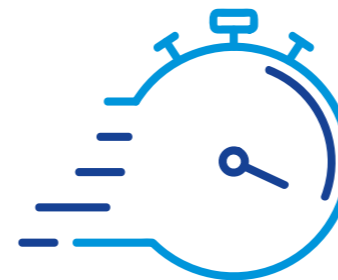
BLIND MATEABLE

Correct locking is confirmed by haptic and acoustic feedback.



TOOL-FREE

By simply plugging it in, the mechanism automatically locks into the corresponding socket. Protection against water and dust is always guaranteed, even without a torque wrench.



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 %.



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.

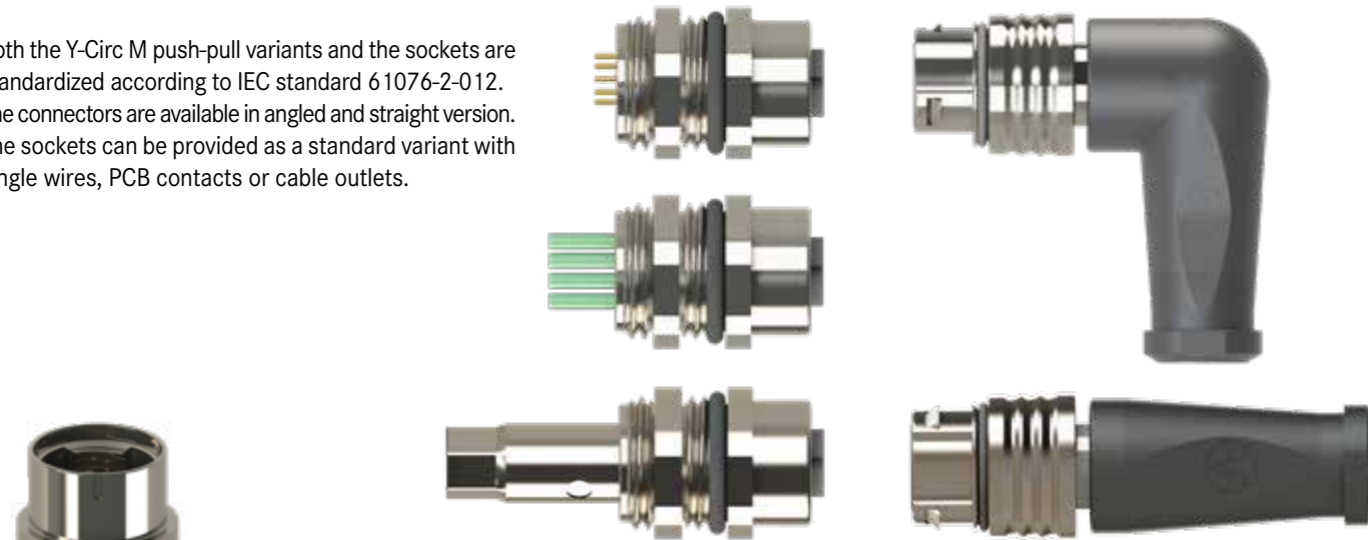


X X X X X X = Identical installation space

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.

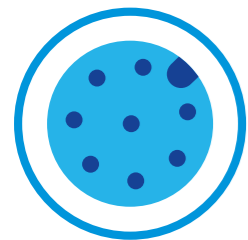
Both the Y-Circ M push-pull variants and the sockets are standardized according to IEC standard 61076-2-012. The connectors are available in angled and straight version. The sockets can be provided as a standard variant with single wires, PCB contacts or cable outlets.



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.

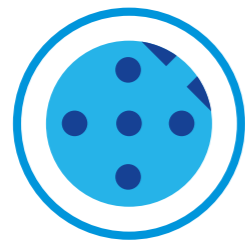
You can also benefit from the flexibility of our company, with production in Germany and the affinity for customer-specific solutions.

CODINGS & APPLICATIONS



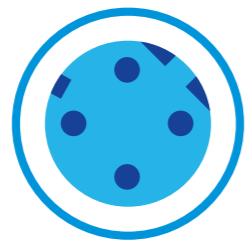
A

Sensors
Actuators
DeviceNet
I/O link



B

Profibus
Applications



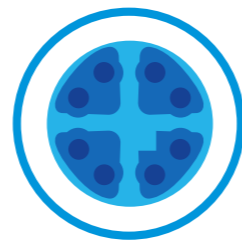
D

Industrial Ethernet
Profinet
Ethernet / IP
EtherCat
Max. 100 Mbit



L

Power transmission
(up to 16 A / 63 V)



X

CAT6_A 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 retrofitable 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

Y-CIRC
S E R I E S



Die Fertigung in Deutschland bringt viele Kundenvorteile mit sich: Kurze Lieferwege, kaum Vorlaufzeiten und schnelle Produktion vor Ort sind einige davon. Das versetzt uns in die Lage kurzfristig auf individuelle Kundenanforderungen und -spezifikationen einzugehen und diese maßgeschneidert umzusetzen. So bieten wir zum Beispiel in Verbindung mit dem Y-Circ M Rundsteckverbinder unterschiedliche Kabelkonfektionen an und können diese auch in kleineren Stückzahlen realisieren.

Home of the Y-CIRC M



M12 PUSH-PULL Y-CIRC M

YED-V1-2|3

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