

PBC15

Cable Connectors



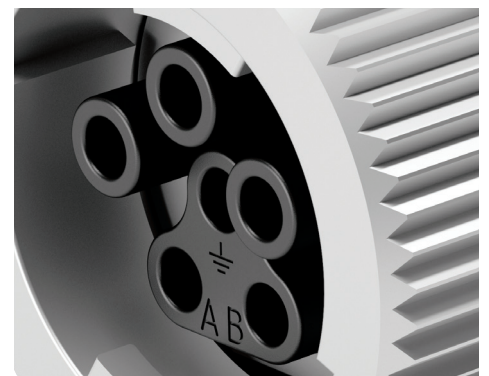
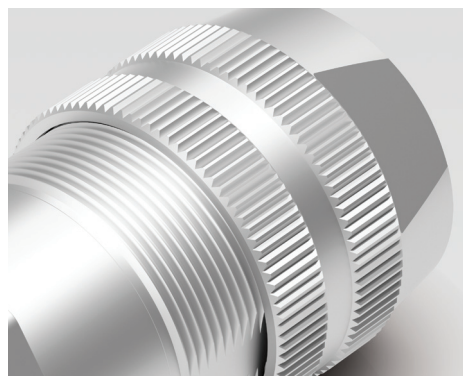
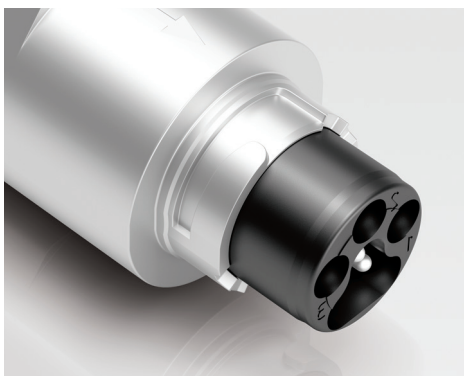
PBC15

Series	615
Contacts	3 (Power) + 2 (Signal) + PE
Locking system	Bayonet
Rated current	16 A / 10 A
Rated voltage	630 V / 63 V
Cable outlet	7–14 mm
Degree of protection	IP67 mated and locked
Contact plating	Ag (silver)
Termination	screw clamp
Type standard	DIN EN IEC 61076-2-116



615 Series • Cable Connectors PBC15

- Product launch 615 series
- Field-wireable cable connectors with screw clamp connection
- Quick locking system for time-saving installation
- Ideal for 3-phase current applications
- Robust metal housing
- 3 Power + 2 Signal + PE
- Unshielded and shielded Versions
- Cable outlet 7 – 14 mm
- IP67 in mated and locked condition
- Available from November 2023



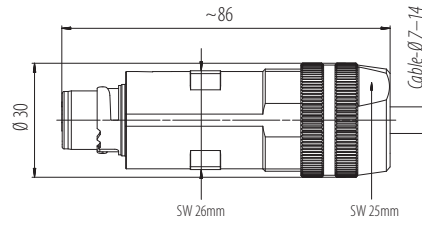
Description

Drawing

Contacts

Ordering-No.

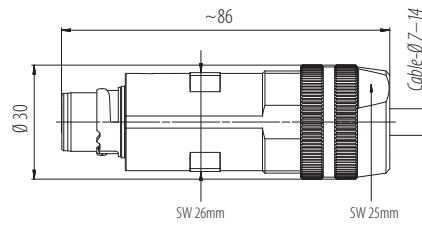
Male cable connector,
screw clamp connection,
unshielded



3+2+PE

99 6165 000 06

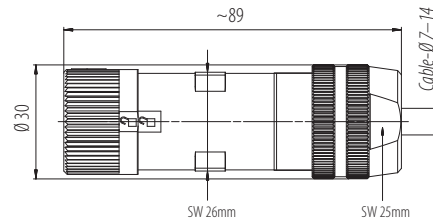
Male cable connector,
screw clamp connection,
shielded



3+2+PE

99 6155 000 06

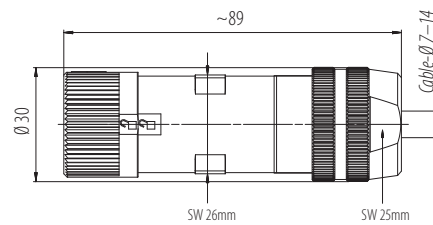
Female cable connector,
screw clamp connection,
unshielded



3+2+PE

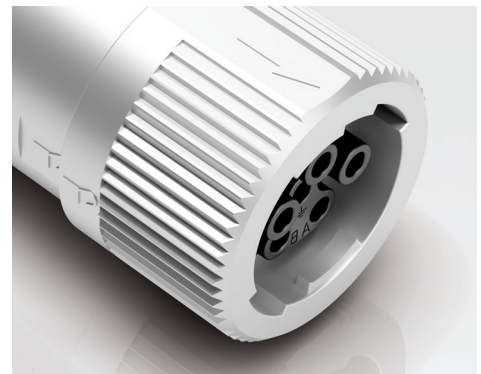
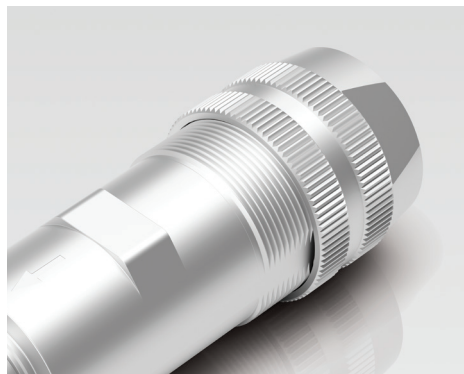
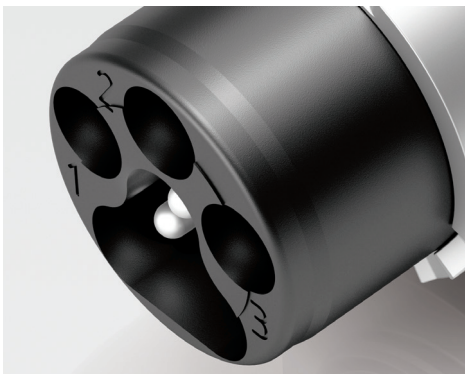
99 6166 000 06

Female cable connector,
screw clamp connection,
shielded



3+2+PE

99 6156 000 06



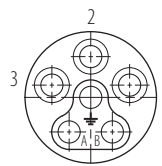
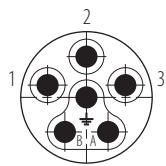
Number of contacts	3+2+PE
Connector locking system	bayonet
Termination	screw clamp
Wire gauge	max. 2,5 mm ² (max. AWG 14) with ferrule
Cable outlet	7–14 mm
Degree of protection	IP67
Mechanical operation	> 100 mating cycles
Upper temperature	+ 85 °C
Lower temperature	– 40 °C
Rated voltage	63 V Signal, 630 V Power
Rated impulse voltage	1500 V Signal, 6000 V Power
Pollution degree	3
Overvoltage categorie	III
Material group	II
Rated current (40 °C)	10 A Signal, 16 A Power
Material of contact	CuZn (brass lead free)
Contact plating	Ag (silver)
Material of contact body	PA
Material of housing	zinc diecasting nickel plated
Material of locking	zinc diecasting nickel plated

Contact arrangements

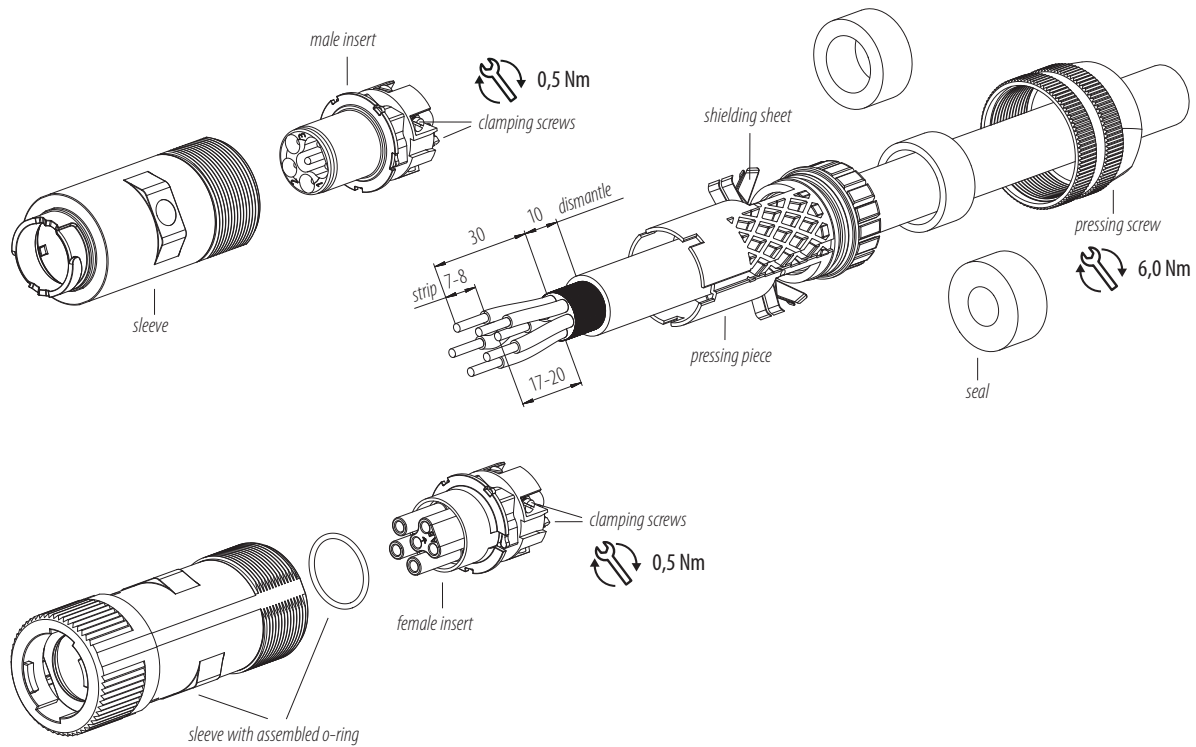
Male insert (mating side)

Female insert (mating side)

3+2+PE contacts



Cable connectors, screw clamp connection



1. Unscrew the clamping screws until the holes for the single wires are completely free.
2. For the shielded version, turn the shielding sheets of the pressing piece outwards.
3. Bead the pressing screw, matching seal and pressing piece onto the cable individually.
4. Strip the cable by about 40 mm. If connecting crosswise, strip 45 mm.
5. Shorten shield and filler by 30 mm or 35 mm when connecting crosswise, so that the single wires are exposed by 30 mm or 35 mm. If necessary, wrap shielding braid with copper tape.
6. Shorten the PE wire to 17 to 20 mm. In case of cross-over assembly, shorten wire 2 to approx. 31 mm.
7. Strip all single wires 7 to 8 mm and twist them. If necessary, crimp on ferrules.
8. Insert the strands into the holes until the insulation rests on the contact and tighten the clamping screws (0,5 Nm).
Recommended order: contact 2, PE contact, contact 1+3, signal contacts.
9. Bring the pressing piece and male/female insert together until the pressing piece rests on the contact carrier. The shielding sheets should now be able to touch the shield. The individual wires must not protrude into the sealing area.
10. Insert the pressing piece including the male/female insert into the sleeve as far as it will go.
11. Push the seal into the pressing piece as far as it will go.
12. Screw on the pressing screw and tighten with approx. 6 Nm.