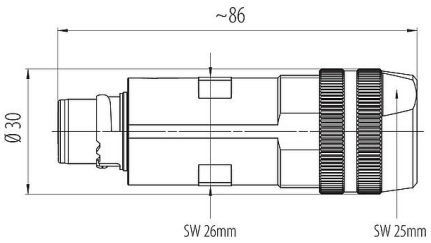
Product data sheet
Power connectors

Product description	**Bayonet Male cable connector, Contacts: 6 (3+PE+2), 7.0-14.0 mm, unshielded, screw clamp, IP67 plugged and locked, UL 2237**
Area	**PBC15**
Series	**615**
Part no.	**99 6165 000 06**

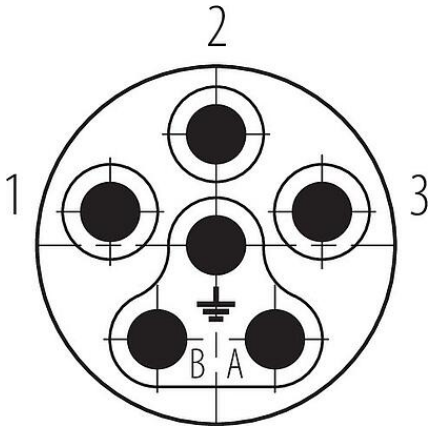
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	99 6165 000 06
Connector design	Male cable connector
Type standard	DIN EN IEC 61076-2-116
Version	Field-wireables
Connector locking system	Bayonet
Termination	screw clamp
Degree of protection	IP67 plugged and locked
Connection cross-section	max. 2.50 mm² / max. AWG 14
Cable outlet	7.0-14.0 mm
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	105.10
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	Power: 630 V, Signal: 63 V
Rated impulse voltage	Power: 6000 V, Signal: 1500 V
Rated current	Power: 16 A, Signal: 10 A
Insulation resistance	> 10^{8} Ω
Pollution degree	3
Overvoltage category	III
Insulating material group	II
EMC compliance	unshielded

Product data sheet

Power connectors

Product description	**Bayonet Male cable connector, Contacts: 6 (3+PE+2), 7.0-14.0 mm, unshielded, screw clamp, IP67 plugged and locked, UL 2237**
Area	**PBC15**
Series	**615**
Part no.	**99 6165 000 06**

Material

Housing material	Zinc die-cast nickel-plated
Contact body material	PA
Contact material	CuZn (brass lead-free)
Contact plating	Ag (silver)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	None (No pollutants)
SCIP number	127b7a8e-abc4-43eb-8f42-e4a6aff58d03

Authorization/approvals

Approvals	UL 2237

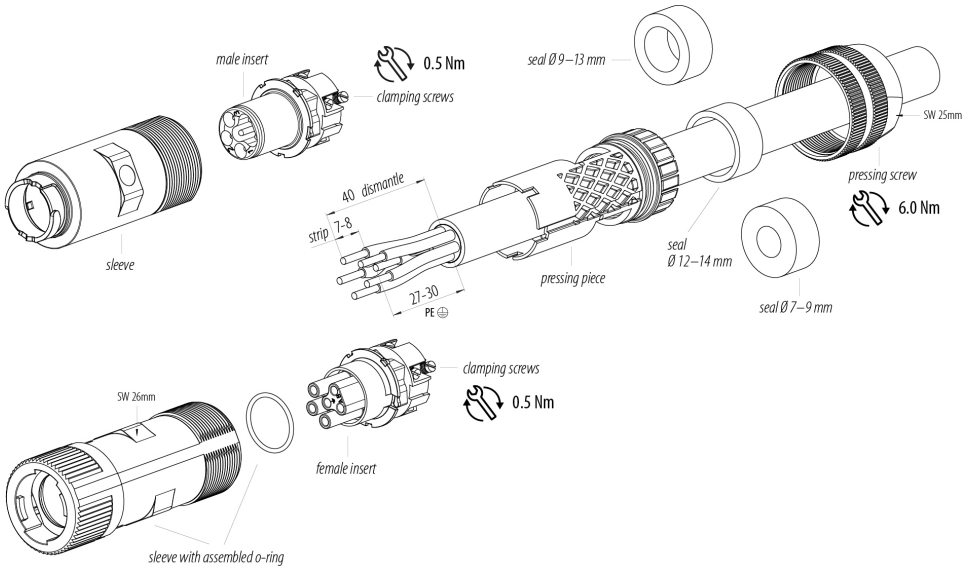
Declarations of conformity

Low Voltage Directive	EN 60529:1991 | EN 60204-1:2018

Product data sheet
Power connectors

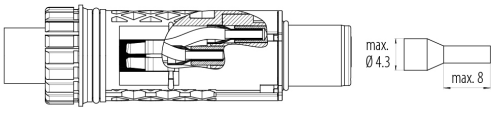
Product description	**Bayonet Male cable connector, Contacts: 6 (3+PE+2), 7.0-14.0 mm, unshielded, screw clamp, IP67 plugged and locked, UL 2237**
Area	**PBC15**
Series	**615**
Part no.	**99 6165 000 06**

Assembly instructions

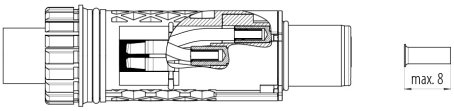


1. *Unscrew the clamping screws until the holes for the single wires are completely free.*
2. *Bead the pressing screw, matching seal and pressing piece onto the cable individually.*
3. *Strip the cable by about 40 mm. If connecting crosswise, strip 45 mm.*
4. *Shorten the PE wire to 27 to 30 mm. In case of cross-over assembly, shorten wire 2 to approx. 41 mm.*
5. *Strip all single wires 7 to 8 mm and twist them. If necessary, crimp on ferrules. Please observe the instructions for connecting single wires with ferrules. **
6. *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.
7. *Bring the pressing piece and male/female insert together until the pressing piece rests on the contact carrier. The individual wires must not protrude into the sealing area.*
8. *Insert the pressing piece including the male/female insert into the sleeve as far as it will go.*
9. *Push the seal into the pressing piece as far as it will go.*
10. *Screw on the pressing screw and tighten with approx. 6 Nm.*

* ***Ferrules with insulation***



Ferrules without insulation



Notes:
The ferrules must not exceed a length of 8 mm. The single wires with ferrule should, if possible, rest on the contact. The insulation of the ferrules with insulation may protrude a maximum of 0.8 mm over the contact.

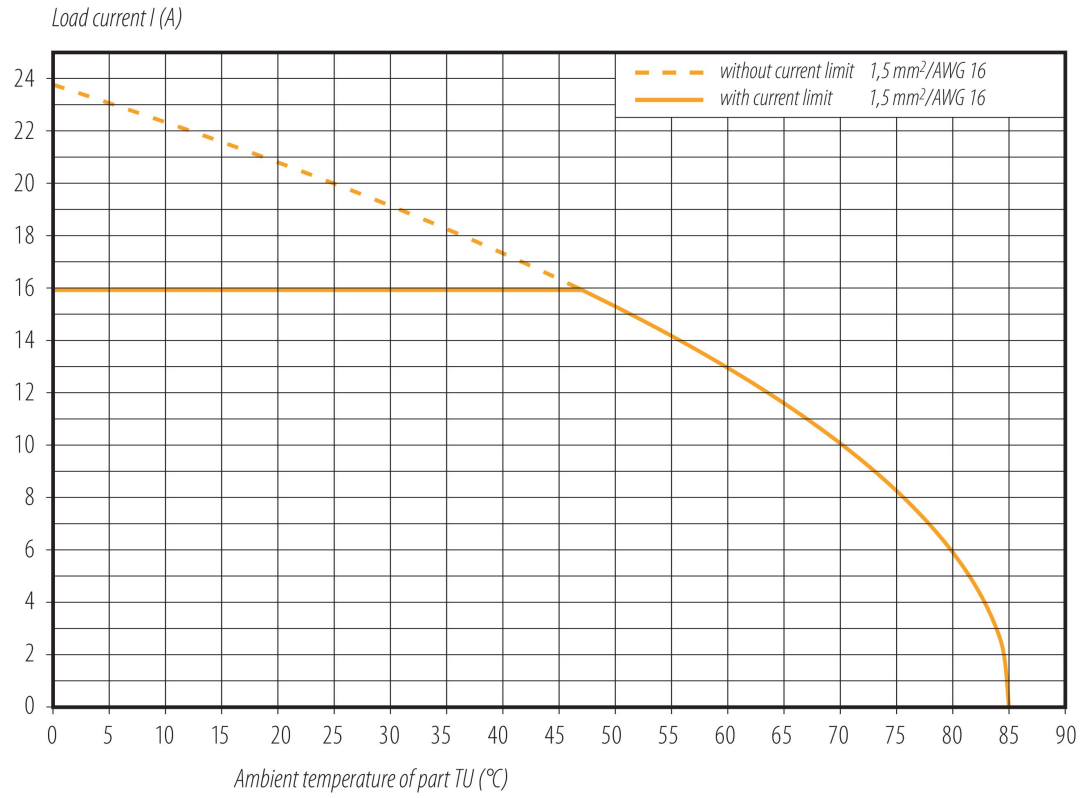
If tested with a time delay fuse, the marking shall also include the following or equivalent: "When protected by Time Delay (see table below) Class Fuses."

Cat. No (s)	Time Delay (TD)/ Non-time Delay (NTD)	Fuse Class	Fuse Current Rating (A)	SCCR (kA)	Voltage V
All	TD	RK5	20	5	600 AC

Product data sheet
Power connectors

Product description	**Bayonet Male cable connector, Contacts: 6 (3+PE+2), 7.0-14.0 mm, unshielded, screw clamp, IP67 plugged and locked, UL 2237**
Area	**PBC15**
Series	**615**
Part no.	**99 6165 000 06**

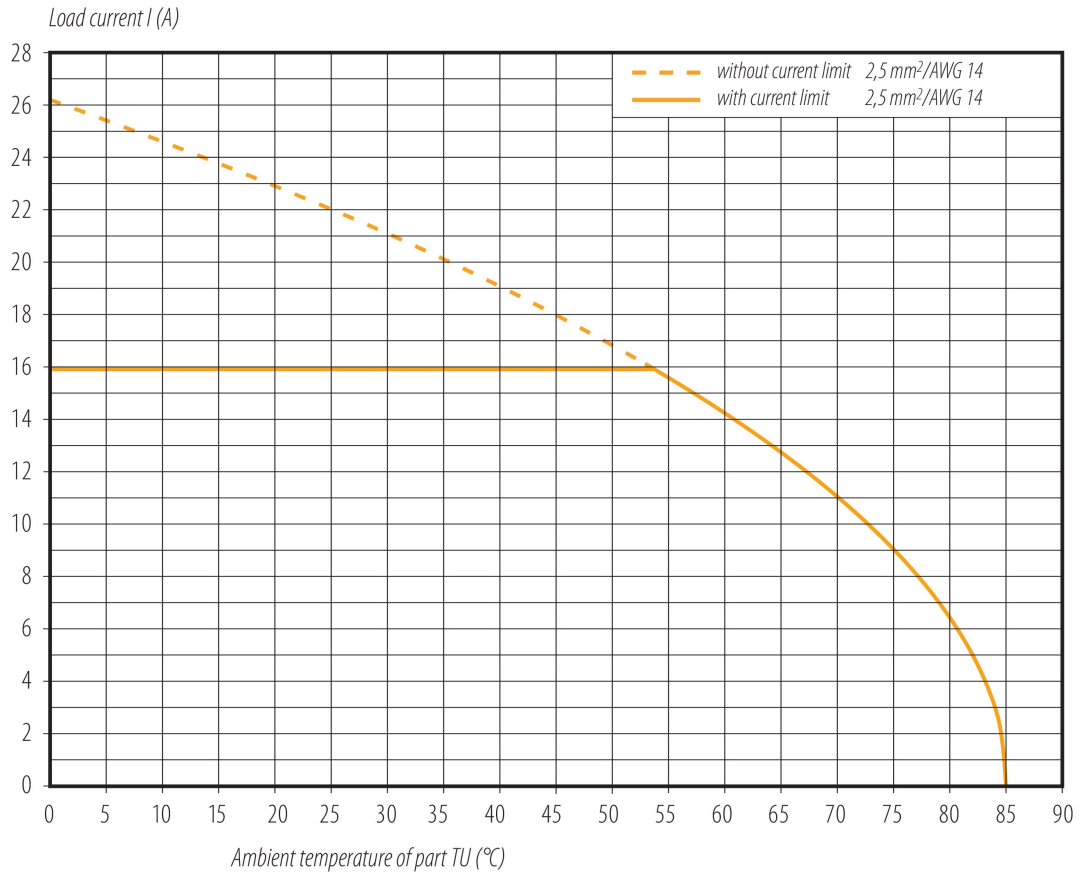
Derating curve



Product data sheet
Power connectors

Product description	**Bayonet Male cable connector, Contacts: 6 (3+PE+2), 7.0-14.0 mm, unshielded, screw clamp, IP67 plugged and locked, UL 2237**
Area	**PBC15**
Series	**615**
Part no.	**99 6165 000 06**

Derating curve



Product data sheet
Power connectors

Product description	**Bayonet Male cable connector, Contacts: 6 (3+PE+2), 7.0-14.0 mm, unshielded, screw clamp, IP67 plugged and locked, UL 2237**
Area	**PBC15**
Series	**615**
Part no.	**99 6165 000 06**

Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

To protect against unintentional opening of the connector, the thread between the housing and the connector head must be secured with a suitable cyanoacrylate adhesive when used in circuits with voltages dangerous to the touch. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

Plug connectors with enclosure protection IP67 and IP68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).