

The fieldbus connector links a PROFIBUS device to a PROFIBUS line.

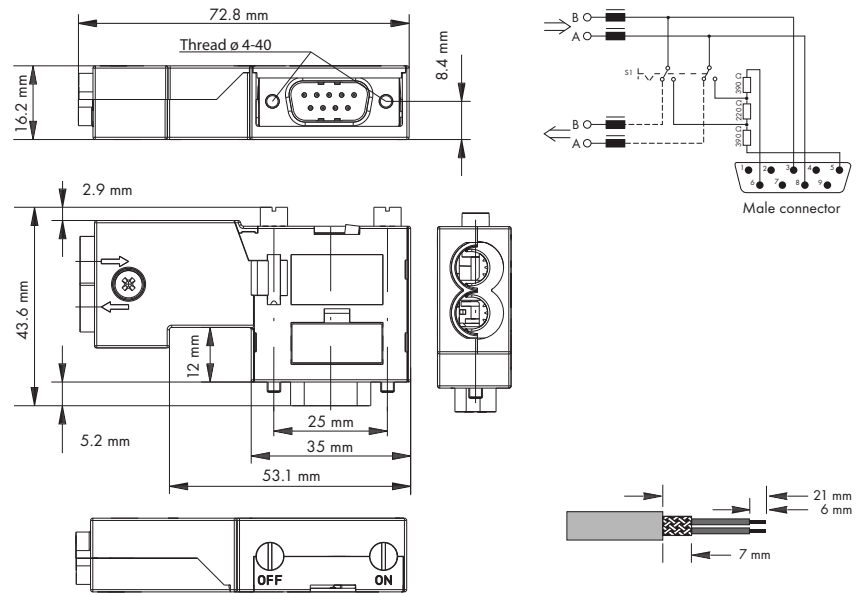
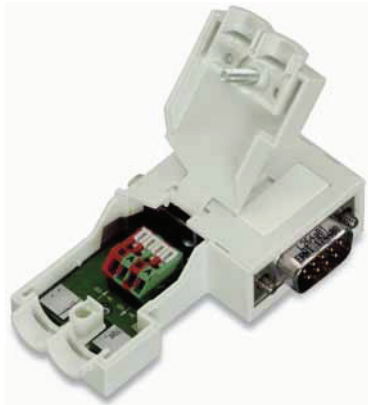
The fieldbus connector has the following features:

- 2 horizontal cable entries. One input and one output.
- Fast and maintenance-free CAGE CLAMP® connection, can be held in the open position with the help of an actuation slide mechanism.
- Externally operable switch to activate and/or deactivate the network terminating resistor.

For the first and last station on the bus, the switch must be set to "ON" (terminating resistor activated). Switch setting to "OFF" for the intermediate stations on the bus (terminating resistor deactivated).

Description	Item No.	Pack. Unit
Bus connector with D-Sub male connector; 9 poles	750-960	1
<b>Accessories</b>		
Operating tool, with partially insulated shaft, Type 1, blade (2.5 x 0.4) mm	210-719	50
Operating tool, with partially insulated shaft, Type 2, blade (3.5 x 0.5) mm	210-720	1
Operating tool for strain relief Phillips screwdriver (PH 0)		
Test pin, 1 mm / 0.039 in Test wire for soldering	735-500	1
<b>Marking possibilities</b>		
Miniature WSB Quick marking system or WMB Multi marking system		
<b>Approvals</b>		
Marine applications	ABS, BV, DNV, GL, KR, LR, NKK, PRS, RINA	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc	
Permissible ambient temperature	0 °C ... +60 °C	
IECEx TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc	
Permissible ambient temperature	0 °C ... +60 °C	

Technical Data	
Double cable input	min. Ø 4.5 mm/0.177 in / max. Ø 9.5 mm/0.374 in
Data transmission rate	corresponding to PROFIBUS specification up to 12 Mbits/s
Power supply	4.75 V ... 5.25 V DC
Max. current consumption (internal)	5 mA
Fixing screw	UNC- 2 A 4-40
Max. tightening torque	0.4 Nm
Housing material	PA66-105-V2
Housing color	light gray
Degree of protection	IP20
Ambient operating temperature	0 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Wire connection	CAGE CLAMP® terminal strips with locking slide (218 Series)
Cross sections	0.08 mm² ... 0.5 mm² / AWG 28 ... 20 sep. connection 0.75 mm² / AWG 18 possible
Stripped length	see graphic



The fieldbus connector links a PROFIBUS device to a PROFIBUS line.

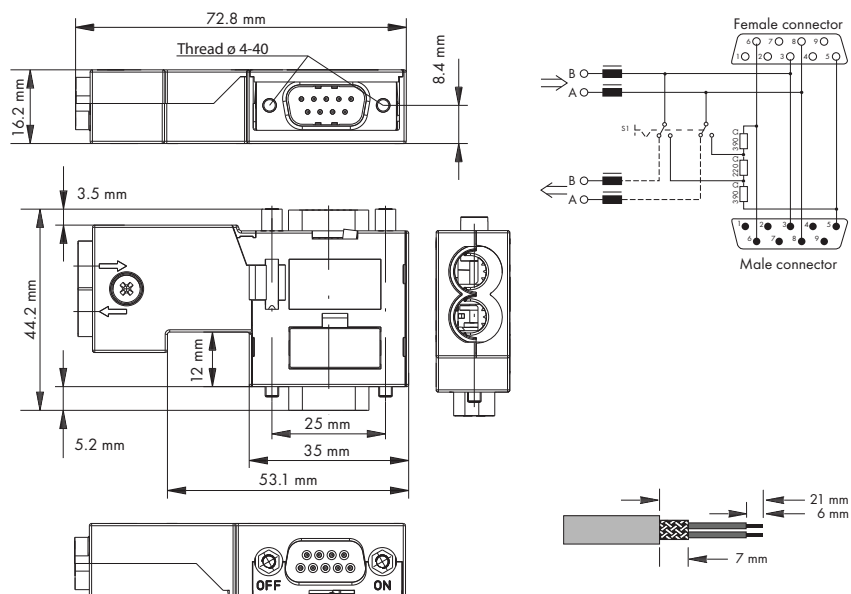
The fieldbus connector has the following features:

- Compact design. It is particularly well-suited for the connection to an S7 PLC.
- No losable parts.
- 2 horizontal cable entries. One input and one output.
- Fast and maintenance-free CAGE CLAMP® connection, can be held in the open position with the help of an actuation slide mechanism.
- Externally operable switch to activate and/or deactivate the network terminating resistor.

For the first and last station on the bus, the switch must be set to “ON” (terminating resistor activated, outgoing bus line disconnected). Switch setting to “OFF” for the intermediate stations on the bus (terminating resistor deactivated).

Description	Item No.	Pack. Unit
Bus connector with D-Sub male connector; 9 poles	750-971	1
<b>Accessories</b>	<b>Item No.</b>	<b>Pack. Unit</b>
Operating tool, with partially insulated shaft, Type 1, blade (2.5 x 0.4) mm	210-719	50
Test pin, 1 mm / 0.039 in Test wire for soldering Markers	735-500	1

Technical Data	
Double cable input	Ø 8.5 mm
Data transmission rate	corresponding to PROFIBUS specification up to 12 Mbits/s
Power supply	4.75 V ... 5.25 V DC
Max. current consumption (internal)	5 mA
Fixing screw	UNC- 2 A 4-40
Max. tightening torque	0.4 Nm
Housing material	PC-V0
Housing color	light gray
Degree of protection	IP20
Ambient operating temperature	0 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Wire connection	CAGE CLAMP® terminal strips with locking slide (218 Series)
Cross sections	0.08 mm² ... 0.5 mm² / AWG 28 ... 20 sep. connection 0.75 mm² / AWG 18 possible
Stripped length	see graphic



The fieldbus connector links a PROFIBUS device to a PROFIBUS line.

The fieldbus connector has the following features:

- Compact design. It is particularly well-suited for the connection to an S7 PLC.
- No losable parts.
- PG interface
- 2 horizontal cable entries. One input and one output.
- Fast and maintenance-free CAGE CLAMP<sup>®</sup> connection, can be held in the open position with the help of an actuation slide mechanism.
- Externally operable switch to activate and/or deactivate the network terminating resistor.

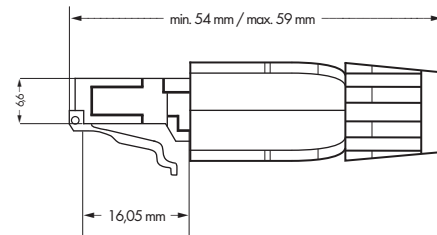
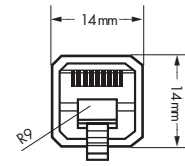
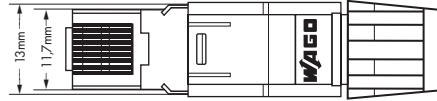
For the first and last station on the bus, the switch must be set to "ON" (terminating resistor activated, outgoing bus line disconnected). Switch setting to "OFF" for the intermediate stations on the bus (terminating resistor deactivated).

Description	Item No.	Pack. Unit
Bus connector with D-Sub male and female connectors; 9 poles	750-972	1
<b>Accessories</b>		
Operating tool, with partially insulated shaft, Type 1, blade (2.5 x 0.4) mm	210-719	50
Test pin, 1 mm / 0.039 in Markers	735-500	1

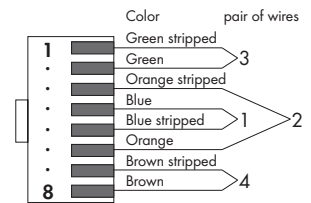
Technical Data	
Double cable input	∅ 8.5 mm
Data transmission rate	corresponding to PROFIBUS specification up to 12 Mbits/s
Power supply	4.75 V ... 5.25 V DC
Max. current consumption (internal)	5 mA
Fixing screw	UNC- 2 A 4-40
Max. tightening torque	0.4 Nm
Housing material	PCV0
Housing color	light gray
Degree of protection	IP20
Ambient operating temperature	0 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Wire connection	CAGE CLAMP <sup>®</sup> terminal strips with locking slide (218 Series)
Cross sections	0.08 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> / AWG 28 ... 20 sep. connection 0.75 mm <sup>2</sup> / AWG 18 possible
Stripped length	see graphic

## ETHERNET RJ-45 Connector, IP20

ETHERNET 10/100 Mbits/s; for field assembly



## Pin assignment TIA-568A



## Versatile RJ-45 connector for industrial, office and building wiring.

The compact RJ-45 uses IDC technology for easy field assembly – connection is made without tools.

The connector is compliant with all required standards. Large conductor cross sections can also be connected.

The connector satisfies Category 5e.

Description	Item No.	Pack. Unit
ETHERNET RJ-45 connector, IP20	750-975	1
<b>Technical Data</b>		
<b>General Specifications</b>		
No. of Poles	8	
Contact material	Bronze (CuSn6)	
Contact plating	> 1.2 µm gold over 1.2 µm nickel	
Insulation material	Connector, polycarbonate (UL94-V0)	
Housing material	Plastic, gray, (UL94-V0)	
Mating cycles	min. > 1000	
Wire connection	IDC (Insulation Displacement Contact), acc. to 60352-4	
IDC surface treatment	Tin-plated, approx. 5 µm	
Cross sections	solid: 0.13 mm <sup>2</sup> ... 0.24 mm <sup>2</sup> / AWG 26/1 ... 23/1 stranded: 0.14 mm <sup>2</sup> ... 0.36 mm <sup>2</sup> / AWG 26/7 ... 22/7	
Admissible insulation Ø	≤ 1.6 mm	
Cable jacket Ø	4.5 mm ... 8.0 mm	
Wire strain relief	With plastic ribs	
Cable strain relief	> 50N	
Shield contacting	Large surface >180° (on cable shield)	
Shield material	Brass (CuZn), hot-dip tinned 3 µm	
Ambient operating temperature	-20 °C ... +70 °C	
Storage temperature	-40 °C ... +70 °C	
Degree of protection	IP20	

## Technical Data

## Electrical Data

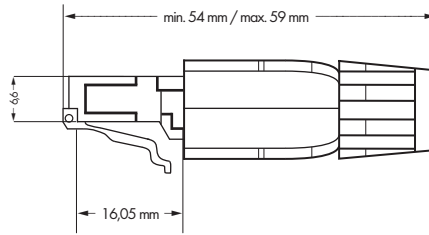
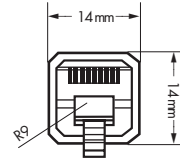
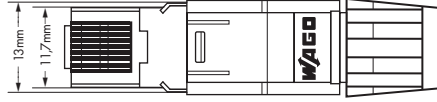
Contact resistance	(wire - IDC) < 1 mΩ; (strand - IDC) < 5 mΩ
Connector shield	< 20 mΩ
Insulation resistance	(100 V) > 500 MΩ
Dielectric strength	(contact-contact) > 1000 V, 1 min.; (shield-contact) > 1500 V, 1 min.
Nominal current	1.75 A / 20 °C
Standards/specifications	- Basic standard: IEC 60603-7 RJ-45 Category 5 - CD ISO/IEC 11801: 2002 - EN 50173: 2002 - EIA/TIA 568A: 2002

## Approvals

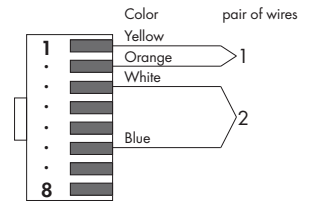
Marine applications	ABS, BV, DNV, GL, KR, LR, NKK, PRS, RINA
UL 508	

# PROFINET RJ-45 Connector, IP20

PROFINET 10/100 Mbits/s; for field assembly



**Pin assignment PROFINET**

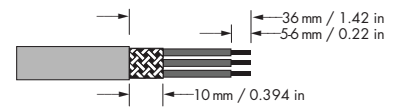
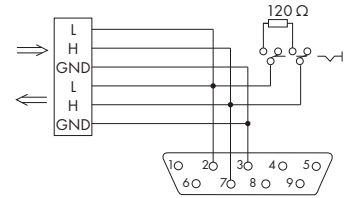
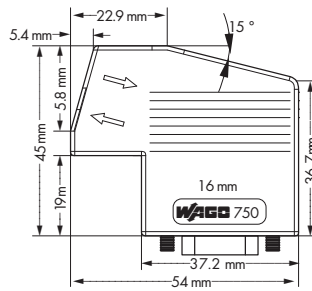
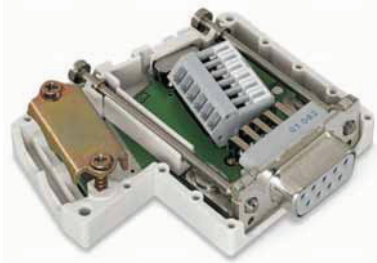


**Versatile RJ-45 connector for industrial, office and building wiring**

The compact RJ-45 PROFINET connector uses IDC technology for tool-free connections in the field. Both solid and stranded conductors can be connected. The connector is compliant with all required standards and complies with Category 5e.

Description	Item No.	Pack. Unit
PROFINET RJ-45 connector	750-976	1
<b>Technical Data</b>		
<b>General Specifications</b>		
No. of Poles	8	
Contact material	Bronze (CuSn6)	
Contact plating	> 1.2 µm gold over 1.2 µm nickel	
Insulation material	PC (UL-94-V0)	
Housing material	PA (UL94-V0)	
Mating cycles	min. > 1000	
Wire connection	IDC (Insulation Displacement Contact), acc. to 60352-4	
IDC surface treatment	Tin-plated, approx. 5 µm	
Cross sections	Solid: 0.24 mm <sup>2</sup> ... 0.32 mm <sup>2</sup> / AWG 23 ... 22 Stranded: 0.26 mm <sup>2</sup> ... 0.36 mm <sup>2</sup> / AWG 23/7 ... 22/7	
Admissible insulation Ø	≤ 1.6 mm	
Cable jacket Ø	4.5 mm ... 8.0 mm	
Wire strain relief	With plastic ribs	
Cable strain relief	> 50N	
Shield contacting	Large surface >180° (on cable shield)	
Shield material	Brass (CuZn), hot-dip tinned 3 µm	
Ambient operating temperature	-20 °C ... +70 °C	
Storage temperature	-40 °C ... +70 °C	
Degree of protection	IP20	

<b>Technical Data</b>	
<b>Electrical Data</b>	
Contact resistance	(wire - IDC) < 1 mΩ; (strand - IDC) < 5 mΩ
Connector shield	< 20 mΩ
Insulation resistance	(100V) > 1GΩ
Dielectric strength	(contact-contact) > 1000 V, 1 min. ; (shield-contact) > 1500 V, 1 min.
Nominal current	1.75 A / 20 °C
Standards/specifications	- Basic standard: IEC 60603-7 RJ-45 Category 5 - CD ISO/IEC 11801: 2002 - EN 50173: 2002
<b>Approvals</b>	
Marine applications	GL
UL 508	



The fieldbus connector links a CANopen device to a CANopen line.

The fieldbus connector has the following features:

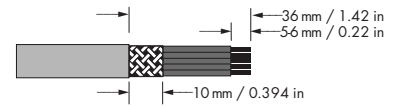
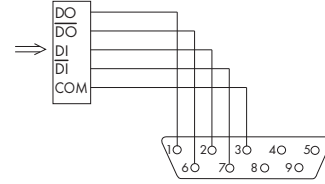
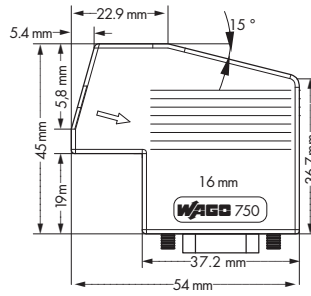
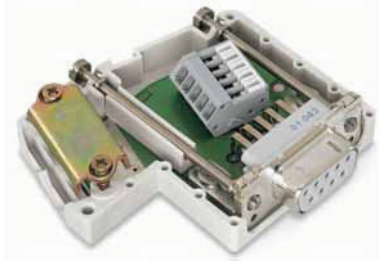
- 2 horizontal cable entries. One input and one output.
- Fast and maintenance-free CAGE CLAMP® connection, can be held in the open position with the help of an actuation slide mechanism.
- Externally operable switch to activate and/or deactivate the network terminating resistor.

For the first and last station on the bus, the switch must be set to "ON" (terminating resistor activated). Switch setting to "OFF" for the intermediate stations on the bus (terminating resistor deactivated).

Description	Item No.	Pack. Unit
<b>Bus connector with D-Sub female connector; 9 poles</b>	<b>750-963</b>	<b>1</b>
<b>Accessories</b>		
<b>Operating tool, with partially insulated shaft,</b> Type 1, blade (2.5 x 0.4) mm	<b>210-719</b>	<b>50</b>
<b>Operating tool, with partially insulated shaft,</b> Type 2, blade (3.5 x 0.5) mm	<b>210-720</b>	<b>1</b>
<b>Operating tool for strain relief</b> Phillips screwdriver (PH 0)		
<b>Test pin, 1 mm / 0.039 in</b> Test wire for soldering	<b>735-500</b>	<b>1</b>
<b>Marking possibilities</b> Miniature WSB Quick marking system or WMB Multi marking system		
<b>Approvals</b>		
Marine applications	ABS, BV, DNV, GL, KR, LR, NKK, PRS, RINA	
UL 508		
TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc	
Permissible ambient temperature	0 °C ... +60 °C	
IECEx TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc	
Permissible ambient temperature	0 °C ... +60 °C	

Technical Data	
Double cable input	min. Ø 4.5 mm/0.177 in / max. Ø 9.5 mm/0.374 in
Data transmission rate	corresponding to CANopen specification 10 kbaud ... 1 Mbaud
Fixing screw	UNC-2 A 4-40
Max. tightening torque	0.4 Nm
Housing material	PA66-105-V2
Housing color	light gray
Degree of protection	IP20
Ambient operating temperature	0 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Wire connection	CAGE CLAMP® terminal strips with locking slide (218 Series)
Cross sections	0.08 mm² ... 0.5 mm² / AWG 28 ... 20 sep. connection 0.75 mm² / AWG 18 possible
Stripped length	see graphic

# INTERBUS Fieldbus Connector (IN)



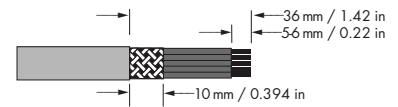
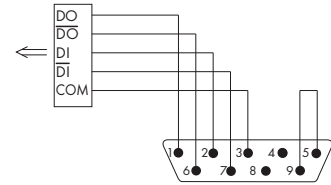
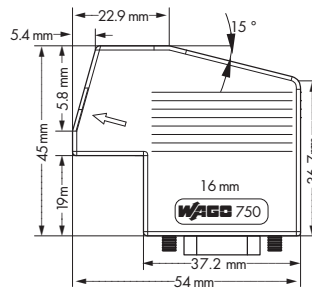
The fieldbus connector links an INTERBUS device to an INTERBUS line.

The fieldbus connector has the following features:

- Fast and maintenance-free CAGE CLAMP® connection, can be held in the open position with the help of an actuation slide mechanism.

Description	Item No.	Pack. Unit
<b>Bus connector with D-Sub female connector; 9 poles</b>	<b>750-961</b>	<b>1</b>
<b>Accessories</b>		
<b>Operating tool, with partially insulated shaft,</b> Type 1, blade (2.5 x 0.4) mm	<b>210-719</b>	<b>50</b>
<b>Operating tool, with partially insulated shaft,</b> Type 2, blade (3.5 x 0.5) mm	<b>210-720</b>	<b>1</b>
<b>Operating tool for strain relief</b> Phillips screwdriver (PH 0)		
<b>Test pin, 1 mm / 0.039 in</b> Test wire for soldering	<b>735-500</b>	<b>1</b>
<b>Marking possibilities</b> Miniature WSB Quick marking system or WMB Multi marking system		
<b>Approvals</b>		
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc	
IECEx TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc	
Permissible ambient temperature 0 °C ... +60 °C		

Technical Data	
Easy wire connection	min Ø 4.5 mm/0.177 in / max Ø 9.5 mm/0.374 in
Data transmission rate	corresponding to INTERBUS specification 2 Mbaud
Fixing screw	UNC- 2 A 4-40
Max. tightening torque	0.4 Nm
Housing material	PA66-105-V2
Housing color	light gray
Degree of protection	IP20
Ambient operating temperature	0 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Wire connection	CAGE CLAMP® terminal strips with locking slide (218 Series)
Cross sections	0.08 mm² ... 0.5 mm² / AWG 28 ... 20 sep. connection 0.75 mm² / AWG 18 possible
Stripped length	see graphic



The fieldbus connector links an INTERBUS device to an INTERBUS line.

The fieldbus connector has the following features:

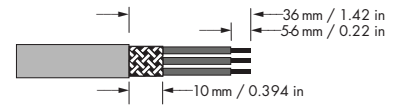
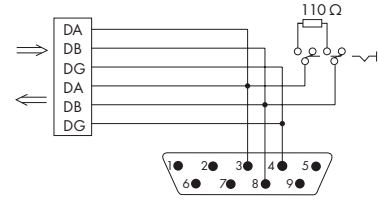
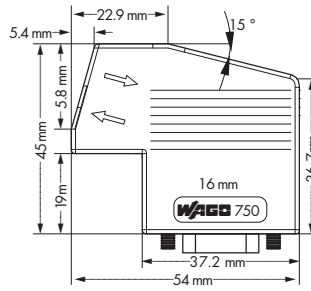
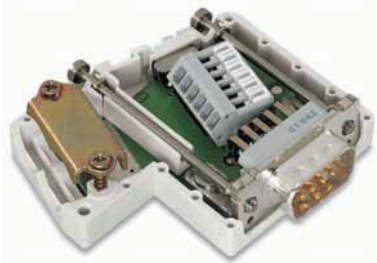
- Fast and maintenance-free CAGE CLAMP® connection, can be held in the open position with the help of an actuation slide mechanism.

Description	Item No.	Pack. Unit
Bus connector with D-Sub male connector; 9 poles	750-962	1
<b>Accessories</b>		
<b>Operating tool, with partially insulated shaft,</b> Type 1, blade (2.5 x 0.4) mm	210-719	50
<b>Operating tool, with partially insulated shaft,</b> Type 2, blade (3.5 x 0.5) mm	210-720	1
<b>Operating tool for strain relief</b> Phillips screwdriver (PH 0)		
<b>Test pin, 1 mm / 0.039 in</b> Test wire for soldering	735-500	1
<b>Marking possibilities</b> Miniature WSB Quick marking system or WMB Multi marking system		
<b>Approvals</b>		
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc	
Permissible ambient temperature	0 °C ... +60 °C	
IECEx TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc	
Permissible ambient temperature	0 °C ... +60 °C	

Technical Data	
Easy wire connection	min Ø 4.5 mm/0.177 in / max Ø 9.5 mm/0.374 in
Data transmission rate	corresponding to INTERBUS specification 2 Mbaud
Fixing screw	UNC- 2 A 4-40
Max. tightening torque	0.4 Nm
Housing material	PA66-105-V2
Housing color	light gray
Degree of protection	IP20
Ambient operating temperature	0 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Wire connection	CAGE CLAMP® terminal strips with locking slide (218 Series)
Cross sections	0.08 mm² ... 0.5 mm² / AWG 28 ... 20 sep. connection 0.75 mm² / AWG 18 possible
Stripped length	see graphic



# CC-Link Fieldbus Connector



The fieldbus connector connects a CC-Link device to a CC-Link line. The fieldbus connector has the following features:

- 2 horizontal cable entries. One input and one output.
- Fast and maintenance-free CAGE CLAMP® connection, can be held in the open position with the help of an actuation slide mechanism.
- Externally operable switch to activate and/or deactivate the termination resistor.

For the first and last station on the bus, the switch must be set to "ON" (terminating resistor activated). Switch setting to "OFF" for the intermediate stations on the bus (terminating resistor deactivated).

Description	Item No.	Pack. Unit
Bus connector with D-Sub male connector; 9 poles	750-965	1
<b>Accessories</b>		
Operating tool, with partially insulated shaft, Type 1, blade (2.5 x 0.4) mm	210-719	50
Operating tool, with partially insulated shaft, Type 2, blade (3.5 x 0.5) mm	210-720	1
Operating tool for strain relief, Phillips screwdriver (PH 0)		
Test pin, 1 mm / 0.039 in Test wire for soldering	735-500	1
<b>Marking possibilities</b>		
Miniature WSB Quick marking system or WMB Multi marking system		
<b>Approvals</b>		
UL 508		

Technical Data	
Double cable input	min. Ø 4.5 mm/0.177 in / max. Ø 9.5 mm/0.374 in
Data transmission rate	corresponding to CC-Link specification
Fixing screw	UNC- 2 A 4-40
Max. tightening torque	0.4 Nm
Housing material	PA66-105-V2
Housing color	light gray
Degree of protection	IP20
Ambient operating temperature	0 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Wire connection	CAGE CLAMP® terminal strips with locking slide (218 Series)
Cross sections	0.08 mm² ... 0.5 mm² / AWG 28 ... 20
	sep. connection 0.75 mm² / AWG 18 possible
Stripped length	see graphic