

PLUG & PLAY

Individual connecting solutions for mobile machines



Individual connecting and cabling solutions from binder for use on mobile machines.

The increasing automation of agricultural and construction machinery is also placing ever new demands on the connectors used in this industry. From tractors and their attachments to excavators, cranes or dump trucks: the safe and fast connection of sensors and actuators on mobile machines is of immense importance. Connectors such as the Deutsch DT and the Superseal and CPC series from AMP have established themselves in this market. The ISOBUS according to ISO 11783, which is standardised worldwide in agricultural machinery, also defines the interfaces for certain applications and makes the use of corresponding products necessary.

The portfolio from binder offers ready-to-connect and, if required, pre-assembled with cable for the Deutsch DT, AMP Superseal and AMP CPC model series. The range is supplemented by cable switches with wiring options specially tailored to different applications and for the flexible combination of connector systems of different designs. This enables us to offer you solutions that are individually adapted to each solution individually adapted to each application.

If you are interested, please contact your sales representative.

ADVANTAGES

- Ready-to-connect and tamper-proof connector solutions for your application in mobile automation.
- Minimal cabling effort and thus maximum time savings.
- Use of cables with drag chain capability for use on moving parts.
- Cable switches for the flexible distribution of signals and an almost limitless combination of connector systems - also from the binder standard range.
- Robust and reliable design with a protection class of IP67 or higher.
- Process-safe cable overmoulding for optimum and safe strain relief of the cable cores.

SECTORS AND FIELDS OF APPLICATION

- Excavators
- Forage harvesters
- Wheel loaders
- Balers
- Combine harvesters
- Beet lifters
- Field sprayers
- Mobile/tower cranes
- Tractors





APPLICATION EXAMPLES

- Lighting
- Diagnostic connectors
- Displays and control units
- Level measurement
- Inclination sensors
- Position sensors
- Actuators
- Valve control

AMP Superseal Connectors

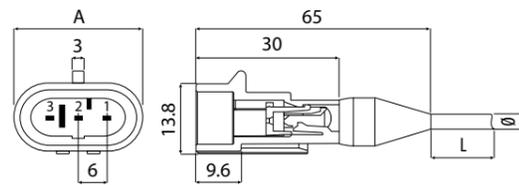
AMP

Male and female housing, moulded
Grid 6.00 mm
AMP Superseal series 1.5 mm



Number of contacts: 2–6
Wire gauge: 0.34–2.5 mm²
Rated voltage: 24 V AC/DC, more on request
Degree of protection: IP67 in mated condition

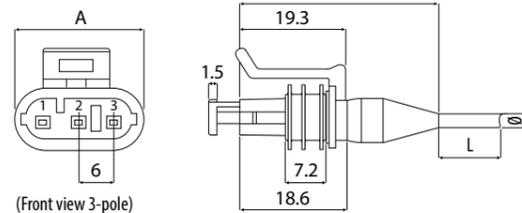
Male housing



(Front view 3-pole)

Contacts	Measures (A)
2	19.8 mm
3	25.8 mm
4	31.8 mm
5	37.8 mm
6	43.8 mm

Female housing



(Front view 3-pole)

Contacts	Measures (A)
2	15.3 mm
3	21.3 mm
4	27.3 mm
5	33.3 mm
6	39.3 mm



CPC Connectors

CPC

Male/female cable connector,
moulded

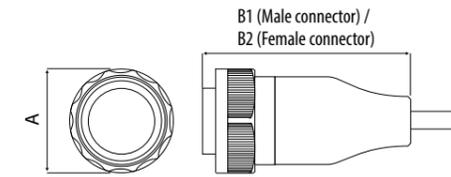


Male/female coupling connector,
moulded



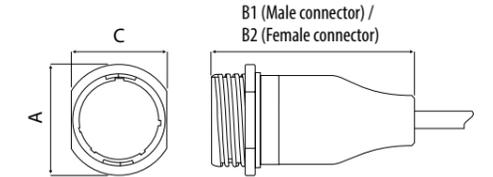
Number of contacts: 4, 9, 14, 24, 37
Wire gauge: AWG 14–28
Rated voltage: 250 V (UL)
Degree of protection: IP67 in mated condition

Exemplary presentation



Contacts	Type	Measures (in mm)		
		A	B1	B2
4	11	25.4	66.0	62.0
9	13	27.9	71.0	66.0
9	17	34.5	78.5	71.5
14	17	34.5	78.5	71.5
24	23	44.5	90.0	85.0
37	23	44.5	90.0	85.0

Exemplary presentation

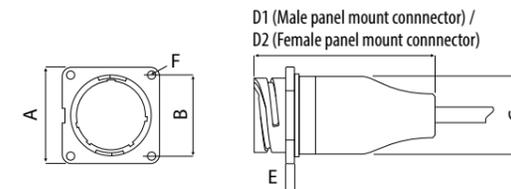


Contacts	Type	Measures (in mm)			
		A	B1	B2	C
4	11	23.6	65.0	60.0	20.6
9	13	26.8	72.0	67.0	22.1
9	17	33.3	76.0	69.0	29.5
14	17	33.3	76.0	69.0	29.5
24	23	43.9	92.0	85.0	37.8
37	23	43.9	92.0	85.0	37.8

Male/female panel mount connector,
moulded



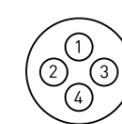
Exemplary presentation



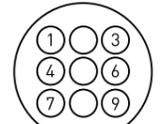
Contacts	Type	Measures (in mm)						
		A	B	C	D1	D2	E	F
4	11	28.7	21.3	20.7	53.5	46.5	2.3	3.3
9	13	32.5	24.6	22.3	58.5	—	2.4	3.2
9	17	36.6	28.7	32.2	63.3	56.5	2.3	3.8
14	17	36.6	28.7	32.2	63.3	56.5	2.3	3.8
24	23	44.5	36.6	38.6*	69.0	62.2	4.1	3.8
37	23	44.5	36.6	38.6*	69.0	62.2	4.1	3.8

Exemplary presentation

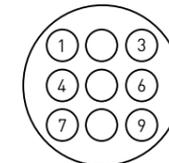
Contact arrangements (mating side male insert)



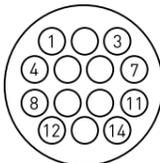
Type 11
4 contacts



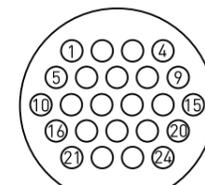
Type 13
9 contacts



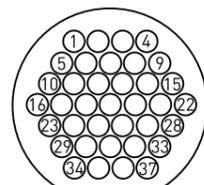
Type 17
9 contacts



Type 17
14 contacts



Type 23
24 contacts



Type 23
37 contacts

* For front wall mounting: through-hole min. 40.2 mm^{+0.1}

DT Connectors

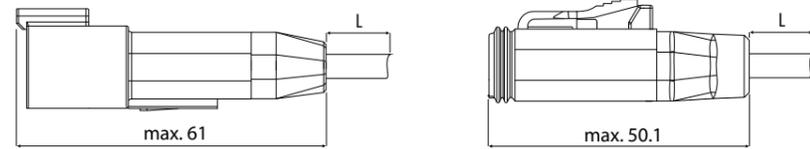
DT

Male and female housing,
moulded
2- to 18-pole

Number of contacts: 2–18
Wire gauge: AWG 14–20
Rated voltage: 250 V AC/DC
Degree of protection: IP67 in mated condition

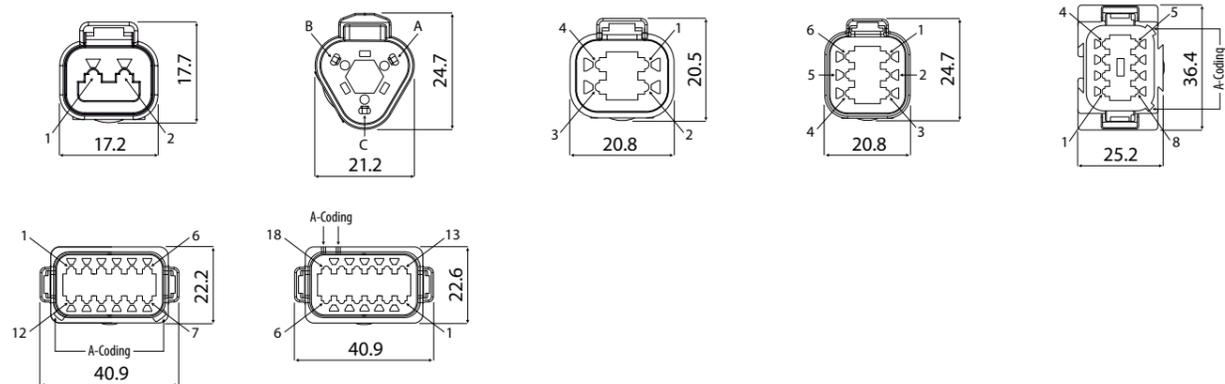


Exemplary presentation

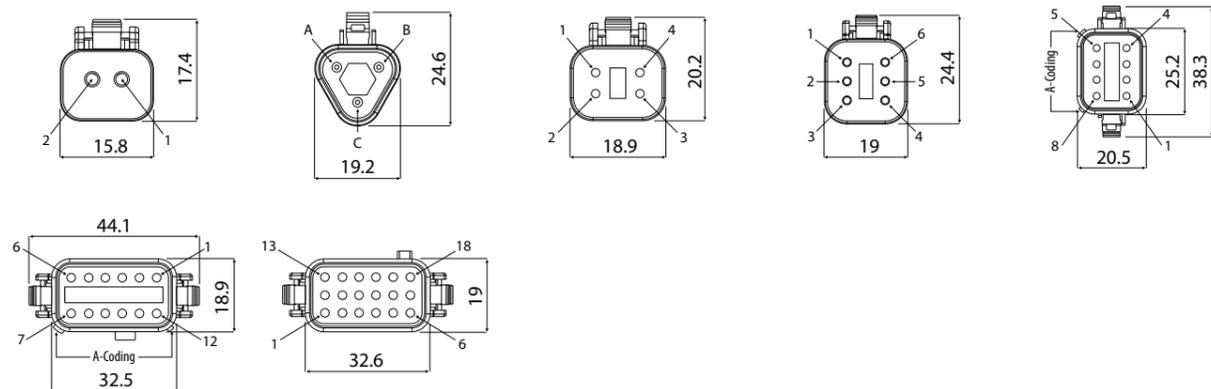


Exemplary presentation

Contact arrangements (mating side male insert)



Contact arrangements (mating side female insert)



Y-Distributors

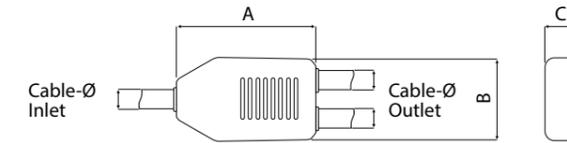
Y

Y-Distributor 1:2
Max. cable diameter 5 mm



Exemplary presentation

Wiring: various possibilities
Degree of protection: IP67 in mated condition



Exemplary presentation

Distribution	Contacts (inlet)	Cable diameter		Measures			Wire gauge
		Inlet	Outlet	A	B	C	
1:2	max. 12	max. 5 mm	max. 5 mm	36.0 mm	22.0 mm	11.0 mm	max. 0.5 mm ²
		max. 8 mm	max. 8 mm	50.0 mm	26.0 mm	13.0 mm	
1:4	max. 8	max. 8 mm	3.5–8 mm *	60.0 mm	27.0 mm	12.0 mm	depends on the number of outlets
1:6	max. 18	max. 14 mm	8–10 mm *	67.5 mm	65.0 mm	20.0 mm	max. 1.0 mm ²
2:6	max. 18	max. 10 mm	8–10 mm *	67.5 mm	65.0 mm	20.0 mm	max. 1.0 mm ²

* Depends on the number of outlets



PLUG & PLAY

Individual connecting solutions for mobile machines





**Franz Binder GmbH & Co.
Elektrische Bauelemente KG**

Rötelstraße 27
74172 Neckarsulm
Germany

Tel. +49 7132 325-0
Fax +49 7132 325-190

vk@binder-connector.de
www.binder-connector.de

11/2022



Specifications may be changed without notice, errors excepted.

AGB: www.binder-connector.com/en/terms

Ordering-No. W PLUGPLAY EN 23

FB082013B1e-01