



T-Connectors and Cables for CAN

Special Features

- High grade connectors
- D-Sub 9 female connector, D-Sub 9 male connector
- Complies with CiA (DS 102-1)

Description

CAN Cables

CAN cables with connectors complying with CiA Draft Physical Layer (DS 102-1) serve to connect CAN nodes and include each a male and a female connector of type D-Sub 9. We only use high quality connectors with gold plated contacts and a minimum mating durability of 200 cycles. CAN cables are available in different length from 20cm to 10m.

CAN T-Connectors

CAN T-Connectors serve to connect CAN nodes to the CAN bus complying with CiA Draft Physical Layer (DS 102-1). They include each a male and a female connector of type D-Sub 9 for bus line connection and female connectors of type D-Sub 9 for each CAN node.

CAN Terminating Plugs

With the CAN terminating plugs bus termination can be realized with D-Sub 9 connectors according to CiA (DS 102-1).

Technical Data

CAN Cable

The following table shows the assignment of the CAN connectors:

Pin	Name	Function
2	CAN_L	CAN Data line (dominant low)
3	GND	Ground
6	GND	Ground
7	CAN_H	CAN Data line (dominant high)
8	ERROR	Error signal (optional)
9	Vcc	Power supply

Nominal Values

Parameter	Maximal	Unit
Core diameter pin 2, pin 6, pin 7, pin 8	0,2	mm ²
Core diameter pin 3, pin 9	0,4	mm ²
Current rating pin 2, pin 6, pin 7, pin 8	2	A
Current rating pin 3 and pin 9	4	A
Operating voltage	300	V

All values, unless otherwise specified, refer to an environmental temperature of maximal 30°C.

CAN T-Connectors

All pins of the CAN T-Connector are wired one to one.

Nominal Values

Parameter	Maximal	Unit
Current rating pin 3	4	A
Current rating pin 1, pin 2, pin 4, pin 5, pin 6, pin 7, pin 8, pin 9	2	A

CAN Termination Plugs

Nominal Values

Parameter	Maximal	Unit
Resistance (tolerance 1%)	124	Ω
Power rating (at 70 °C)	0,6	W