

CAN Cables and Accessories

CAN Wiring for Industrial Environment

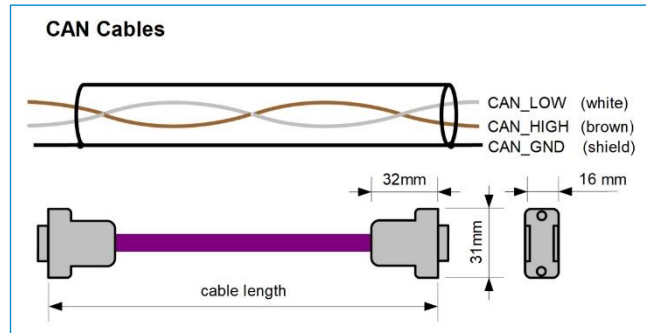


CAN Cables

- Factory built cable assembly
- According to recommendations of CiA® 303 Part 1 and CiA 106
- Easy CAN wiring without tools

Cables

The cables are designed for application in CAN systems. They are compatible with all esd CAN devices. The shield of the cable is connected to CAN_GND and protects the differential CAN data signal against electromagnetic influences.



Technical Specifications:

General:	
Standards	ISO 11898-2, CiA 303 Part 1
Cables:	
Standards	DIN 47100, UL approved
Type	Shielded fieldbus cable, 2x 0.22 mm ² , stranded bare conductors, twisted pair
Shield	Tinned copper shield
Impedance	100-120 Ω
Dimensions	Outer diameter: 6 mm, bending radius: 80 mm
Colour	Violet (according to DESINA® standard)
Ambient Temperature	-40 °C ... +80 °C (fixed installations) -5 °C ... +70 °C (flexible installations)
Flammability	Flame retardant and self-extinguishing, UL approved, acc. to IEC 60332-1-2, VDE 0482-332-1-2,
Cable connectors	9-pin DSUB (plug/socket, see order information), Pin-assignment according to CiA 106, Quality grade: 3, bolts: UNC 4-40, Metallised plastic housing (is not connected to wire or cable shield), UL94 1/16" HB flame retardant

Order Information Cable:

Cables (Examples)	Order no.
CAN-Cable-SB, 0.3 m 9-pin plug - 9-pin socket	C.1322.03
CAN-Cable-SB, 1.0 m 9-pin plug - 9-pin socket	C.1322.10
CAN-Cable-SB, 3.0 m 9-pin plug - 9-pin socket	C.1322.30
CAN-Cable-SB, 10.0 m 9-pin plug - 9-pin socket	C.1322.99
CAN-Cable-SS, 1.0 m 9-pin plug - 9-pin plug	C.1320.10
CAN-Cable-BB, 2.0 m 9-pin socket - 9-pin socket	C.1321.20
CAN-Cable-SB, customized length, 9-pin plug/socket	C.1322.00
CAN-Cable-S, 0.3 m 9-pin plug - wire end sleeve	C.1323.03
CAN-Cable-B, 0.3 m 9-pin socket - wire end sleeve	C.1323.04

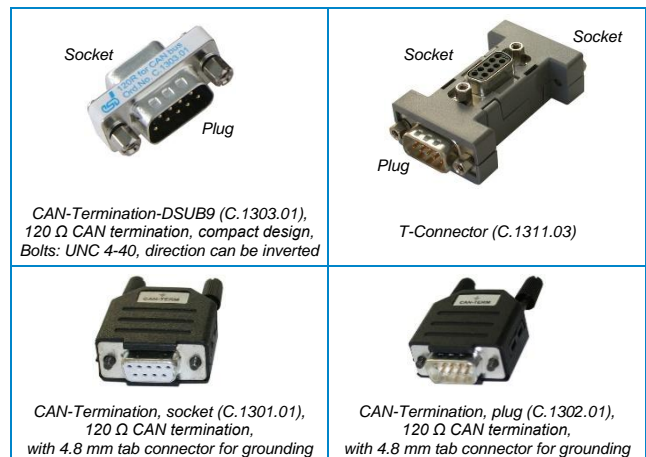
Accessories

- Connector with termination
- T-Connector
- Repeaters to improve participant capacity

Connectors

T-connectors and stub cables are available for connecting CAN nodes to the main bus cable. The recommended maximum length for stub lines is 0.3 m. Both ends of the CAN network must be terminated with a 120 Ω termination.

For external termination several terminating plugs with or without grounding contact for CAN_GND are available. The pin-assignments of the DSUB connectors conform to CiA 106.



Order Information Connectors:

Connectors	Order no.
CAN-Termination-DSUB9 1x DSUB9 plug to 1x DSUB9 socket, 120 Ω CAN termination integrated	C.1303.01
CAN-Termination Socket 1x DSUB9 socket, 120 Ω termination, PVC housing, quality grade: 3	C.1301.01
CAN-Termination Plug 1x DSUB9 plug; 120 Ω termination, PVC housing, quality grade: 3	C.1302.01
T-Connector 2x DSUB9 socket, 1x DSUB9 plug, PVC housing, quality grade: 3	C.1311.03

For technical data, refer to the data sheets or the manuals of the connectors.

Repeaters

esd offers CAN-Repeater with two or three ports and optional electrical isolation to meet all installation requirements.

For more information, please visit the repeater product page on our website (www.esd.eu)



Order Information Repeaters:

Repeater	Order no.
CAN-Repeater-I 2x CAN	C.1330.02
CAN-Repeater-I-Opto 2x CAN, electrical isolation	C.1330.06
CAN-Repeater-Y 3x CAN	C.1330.03
CAN-Repeater-Y-Opto 3x CAN, electrical isolation	C.1330.07

Please refer to the CAN-Repeater data sheet for technical specifications.