

CAN Cables and Accessories

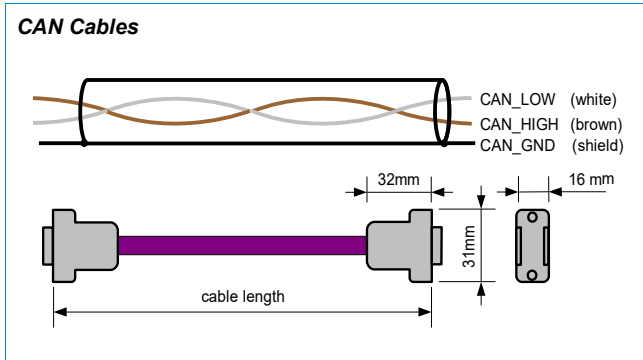
CAN Wiring for Industrial Environment

CAN Cables

- Factory built Cable Assembly
- Complies with CANopen® CiA® Recommendation 303 Part 1
- Easy Wiring without Tools

Cables

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



Technical Cable 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 (fix 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 (male/female, see order information) 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 Cables:

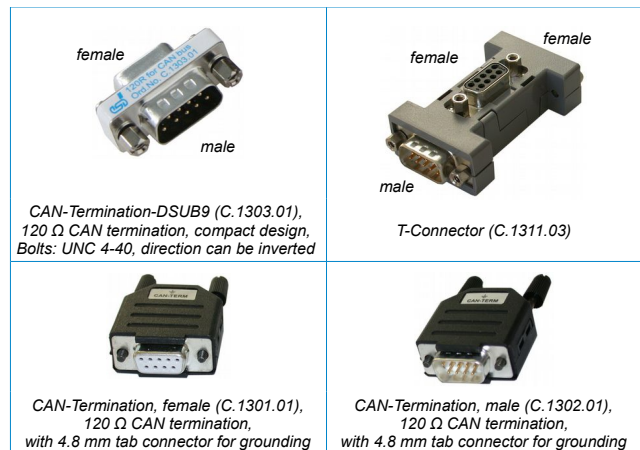
Cables (Examples)	order no.
CAN-Cable-SB, 0.3 m 9-pin male - 9-pin female	C.1322.03
CAN-Cable-SB, 1.0 m 9-pin male - 9-pin female	C.1322.10
CAN-Cable-SB, 3.0 m 9-pin male - 9-pin female	C.1322.30
CAN-Cable-SB, 10.0 m 9-pin male - 9-pin female	C.1322.99
CAN-Cable-SS, 1.0 m 9-pin male - 9-pin male	C.1320.10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

Accessories

- Connectors with Termination
- T-Connector
- Repeaters to improve Participant Capacity

Connectors

To connect CAN nodes to the main bus cable T-connectors and stub cables are available. The recommended max. length for stub lines is 0.3 m. Both ends of the CAN network have to be terminated with a 120 Ω termination. For external termination several terminating plugs with or without grounding contact for CAN_GND are available.



Order Information Connectors:

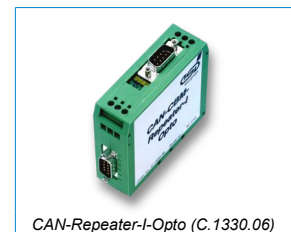
Connectors	order no.
CAN-Termination- 1x DSUB9 male to 1x DSUB9 female, 120 Ω CAN termination integrated,	C.1303.01
CAN-Termination 1x DSUB9 female, 120 Ω termination, PVC housing, quality grade: 3	C.1301.01
CAN-Termination 1x DSUB9 male; 120 Ω termination, PVC housing, quality grade: 3	C.1302.01
T-Connector 2x DSUB9 female, 1x DSUB9 male, PVC housing, quality grade: 3	C.1311.03

Please read the connector's data sheet or manual for technical specifications.

Repeaters

esd offers CAN-Repeaters with two or three ports and electrical isolation as an option to fit all needs of installation.

Please take a look in the product directory at www.esd.eu for more information.



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 read the repeaters' data sheet for technical specifications.

EG-KONFORMITÄTSERKLÄRUNG EC DECLARATION OF CONFORMITY



Adresse **esd electronic system design gmbh**
Address **Vahrenwalder Str. 207**
30165 Hannover
Germany

esd erklärt, dass das Produkt
esd declares, that the product

CAN-Cable-SS
CAN-Cable-BB
CAN-Cable-SB

CAN-Termination
CAN-Termination
CAN-T-Connector

Typ, Modell, Artikel-Nr.
Type, Model, Article No.

C.1320.xx
C.1322.xx
C.1323.xx

C.1301.01
C.1302.01
C.1311.03

Das Produkt entspricht der EG-Richtlinie „RoHS“
The product corresponds to the EC-Directive 'RoHS'

2011/65/EU

Diese Erklärung verliert ihre Gültigkeit, wenn das Produkt nicht den Herstellerunterlagen entsprechend eingesetzt und betrieben wird, oder das Produkt abweichend modifiziert wird.
This declaration loses its validity if the product is not used or run according to the manufacturer's documentation or if non-compliant modifications are made.

Name / Name	T. Ramm
Funktion / Title	CE-Koordinator / CE Coordinator
Datum / Date	Hannover, 2013-06-26

Rechtsgültige Unterschrift / *authorized signature*