

ABB TC625

AF100 Coaxial Modem

Manufacturer	ABB
Model / order number	TC625 / 3BSE002224R1
Product identification	AF100 Coaxial Modem
System / family context	Advant Fieldbus 100

Verified scope

ABB describes TC625 as the coaxial modem between CI520, CI522 or CI526 and the AF100 bus. One modem serves one bus; two are required for redundant cables. The following pages preserve the original description and connector drawing.

Engineering checks before replacement

- Distinguish the active modem from its separate connection cable.
- Provide one modem for each bus cable in the approved redundancy design.
- Inspect the BNC connection, D-sub connection and power arrangement.
- Check transmit, receive and power indications together with application data.

Official ABB source reference

ABB Advant Fieldbus 100 User Manual, 3BSE000506-600, August 2014. Original pages 266-267.

Open original ABB manufacturer reference

This cover is an independent Sales PLC reference, not a manufacturer-issued datasheet. The following manufacturer pages retain their original text, layout and page numbering.

Request model verification or a quotation

info@amikon.cn | +86 18020776786

www.salesplcauto.com

Twisted pair bus cable:		
	• Twisted pair cable	150 ohms
	• Cable length max.	750 m (2500 ft.)
•	Maximum number of stations per segment	32
•	Maximum difference in redundant cables length between any two stations on the bus.	1200 m (4000 ft.)

Modems

Coaxial Cable Modem TC625

The coaxial cable modem TC625 provides a connection between the CI520, CI522 and the CI526 communication interface and the Advant Fieldbus 100 coaxial bus. It implements a transceiver/modem function for one bus. [Figure 99](#) shows a TC625. If redundant cables shall be installed, it requires two TC625. In [Figure 7](#) the principle connection with redundant cables is shown.

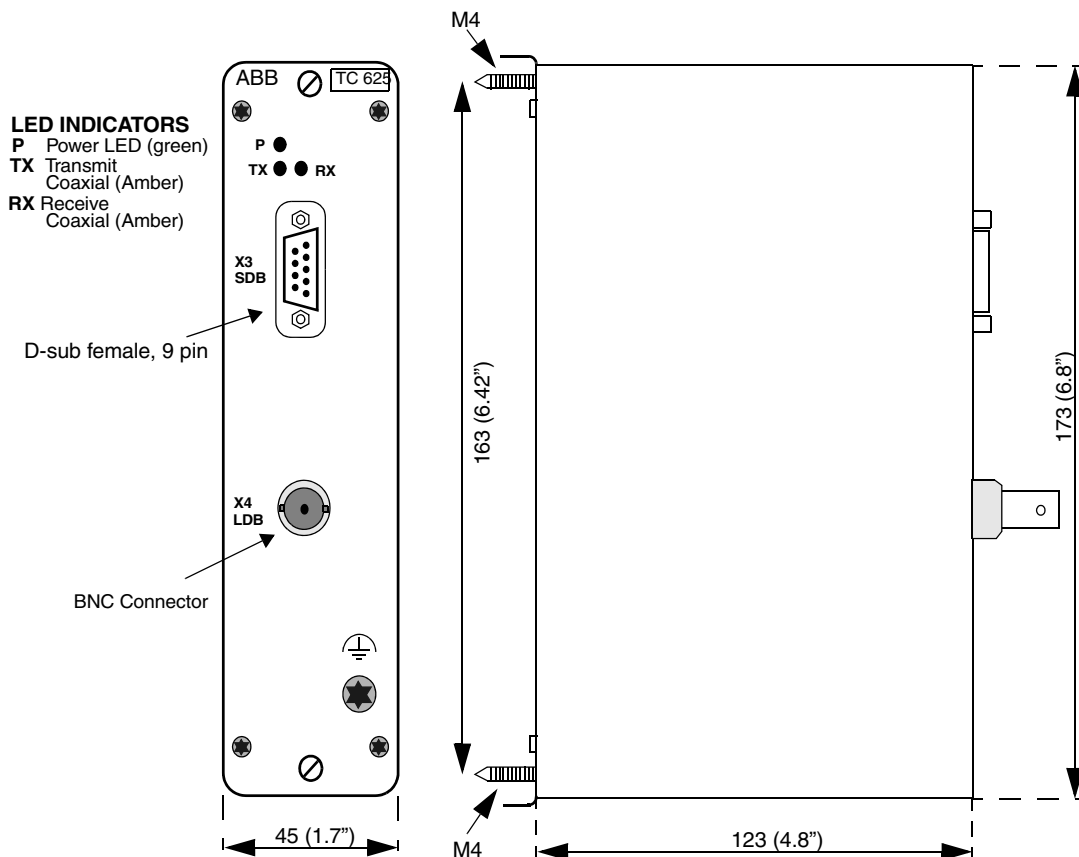


Figure 99. TC625 Coaxial Cable Modem - measurements in mm (inches)

Coaxial/Optical Modem TC630

The optical cable modem TC630 provides a point-to-point duplex optical cable connection between two Advant Fieldbus 100 coaxial networks. For the function of the bus the TC630 is total transparent. Figure 100 shows a TC630. Since it provides a point-to-point connection, it always requires two TC630 to realize a connection, see Figure 8. Each Optical Cable Modem TC630 must be calculated as 150 meters cable equivalent.