

Technical Specifications:CTD-1GBIT AG AU

1 Mechanical characteristics

Number of mating cycles: $n \ge 10'000$

2 Electrical values

Description	Symbol	Value	Comments	
Transmission resistance	$R_{\rm contact}$	10 mΩ	The transmission resistance relates to a single contact.	
Current-carrying capacity	$I_{ m contact}$	0.4 A	The current-carrying capacity relates to a single contact with cable cross section area of 0.14mm²/AWG26.	
Insulation resistance	$R_{ m insulation}$	≥1GΩ	The insulation resistance was measured from contact to contact and from contact to shield.	
Rated voltage	$U_{ m R}$	50 V	Maximum permitted nominal voltage of the connected transmission system.	

3 Transmission quality

3.1 Measurement setup:

The measurement equipment in Table 1 was used to determine the transmission quality. For the measurement, a 2-meter cable with two RJ45 connectors was prepared, then the CTD-1GBIT AG AU was connected in between (see Figure 1).

Mea	suring instrument	Measurement adapter	Cable type	Plug type
Man	ufacturer: Softing	Permanent	Manufacturer: Dätwyler	Manufacturer: Metz Connect
Туре	e: WireXpert WX500	Link	Type: CU 7702 4P FLEX AWG26 S/FTP CAT 7	130910-I RJ45-Einbaumodul E-Dat CAT 6a

Table 1: Measuring equipment

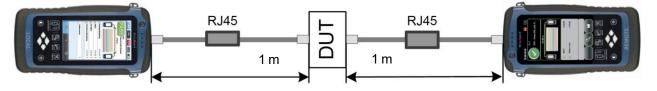


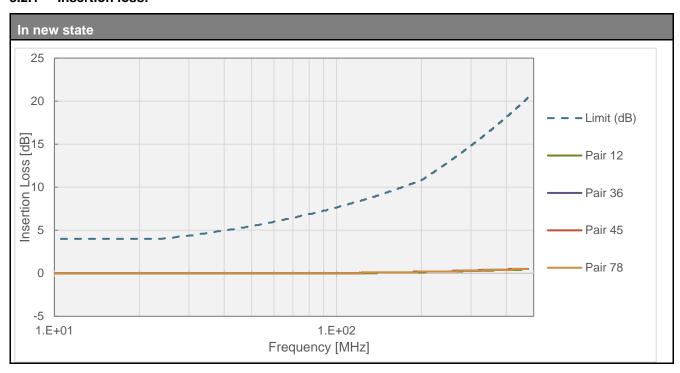
Figure 1: Measurement setup for the device under test (DUT) in this case the CTD-1GBIT AG AU



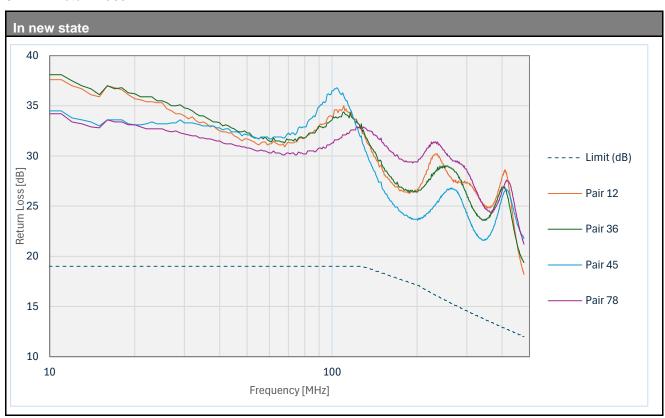
3.2 Attenuation characteristics:

All limits given below refer to category 5e according to the IEC 11801-1 standard for the "Connection Link (CL)" configuration.

3.2.1 Insertion loss:



3.2.2 Return loss:





3.2.3 **NEXT**:

