

# Terminal box 12-pin



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Products, data sheets, documentation, MR12-SCHEMA-calculator: [www.schneid.at](http://www.schneid.at)

**SCHNEID 12-pin terminal box for FSS-SCHNEID systems**  
with pluggable SCHNEID surge arrester module FSS-SCHNEID.

<b>Order number:</b>	<b>020.00443</b>
<b>Order code:</b>	<b>Anklemmdose 12polig für FSS-SCHNEID Systeme</b>



## Overview:

The 12-pin SCHNEID socket for FSS-SCHNEID systems is used to clamp the earth data cable in accordance with the specifications for networks (for more information, see [www.schneid.at](http://www.schneid.at)). Furthermore, all necessary arrester modules and protective devices for the precautions to protect the network from indirect lightning are integrated in the box.

## Terminal plan:

**Earth or shield clamp**  
The shield of the incoming and outgoing cable is connected to the earth or shield terminal. Furthermore, the house grounding (or the coiled tape at the entrance to the FW house) must be connected to these terminals. These are important requirements for protecting the system against indirect lightning strikes.

**Surge arrester module**  
The arrester module has additional arresters for overvoltages in the system. Only one module per clamping board may be used. The module can be plugged into three different slots. Depending on the selected slot, either line 1 (terminal 1,2,3,4), line 2 (term. 5,6,7,8) or line 3 (term 9,10,11,12) is switched through to the controller.

**Incoming cable**  
The terminal board is designed for a twelve-pin cable. The incoming cable is the one that comes from the visualization computer.

Terminal assignment	PE shield/earth	in the example shown
1	TX+	line 1 active connected to the controller
2	TX-	line 1 active connected to the controller
3	RX+	line 1 active connected to the controller
4	RX-	line 1 active connected to the controller
5	TX+	line 2
6	TX-	line 2
7	RX+	line 2
8	RX-	line 2
9	TX+	line 3
10	TX-	line 3
11	RX+	line 3
12	RX-	line 3

Terminal box for a twelve-pin cable

**Outgoing terminal to the controller**  
The four-pin cable to the controller is connected here.

Terminal PE (green) controller terminal 25 shield  
Terminal 1 (blue) controller terminal 26 TX+  
Terminal 2 (grey) controller terminal 27 TX-  
Terminal 3 (orange) controller terminal 28 RX+  
Terminal 4 (white) controller terminal 29 RX-

**!! The shield of the connection cable must be earthed on both sides !!**

**Short circuit plug**  
Only if the respective short-circuit plug is plugged in, the individual wire strands strand 1 (1,2,3,4), strand 2 (5,6,7,8) and strand 3 (9,10,11,12) are connected from the incoming side to the forwarding side. To measure the cable during operation, the respective short-circuit plug must therefore be pulled at both cable ends.

**Advanced cable**  
The more extensive cable is the one that continues to the last control device. If branching is planned, the second additional cable must also be connected here.

Terminal assignment	PE shield/earth	in the example shown
1	TX+	line 1 switched through when short-circuit plug is attached
2	TX-	line 1 switched through when short-circuit plug is attached
3	RX+	line 1 switched through when short-circuit plug is attached
4	RX-	line 1 switched through when short-circuit plug is attached
5	TX+	line 2 switched through when short-circuit plug is attached
6	TX-	line 2 switched through when short-circuit plug is attached
7	RX+	line 2 switched through when short-circuit plug is attached
8	RX-	line 2 switched through when short-circuit plug is attached
9	TX+	line 3 switched through when short-circuit plug is attached
10	TX-	line 3 switched through when short-circuit plug is attached
11	RX+	line 3 switched through when short-circuit plug is attached
12	RX-	line 3 switched through when short-circuit plug is attached