

# Weidmüller interface units

## A

Given the need to reduce costs in electrical cabinet construction, interface units offer an alternative to wiring concepts with point-to-point wiring. The prime function of interface units is to act as a trouble-free adapter element between standardized plug connectors and point-to-point wiring or other connection systems.

Interface units consist of the following individual components:

- Extruded profile for inserting the PCB
- End plates for fitting on the mounting rail
- Clip-on feet for locking on standardized mounting rails TS 32 and TS 35
- PCB with connecting and indicating elements, DIN plug connectors and ample marking facilities for equipment identification

The plug connectors used for the interface units can be divided into the following groups:

- Plug connector to IEC 603-1/DIN 41 651
- Sub-miniature plug connectors (SUB-D) to IEC 807-2/ DIN 41 652
- Plug connectors for PCBs to IEC 603/DIN 41 612 and DIN 41 615
- ELCO plug connectors for hazardous area applications

## Advantages of the interface units:

- Two- and three-tier PCB terminals save space
- Conventional point-to-point wiring only needed on one side, thus saving costs
- Greater safety, preventing wiring errors
- Optional: status LED on the interface units
- Rapid troubleshooting with additional test and measuring devices
- Simplified setup and documentation

Interface units let users implement pioneering concepts in switchboard design with potential for rationalization. Customized wiring concepts can also be solved rationally through the use of special interface units.

Pre-assembled leads with the corresponding plug connector systems are used as the connection between the series-connected controller and the interface unit. This provides the greatest savings for the user. The use of interface units reduces the individual circuitry, which reduces labor and installation time and also hidden costs, in particular a reduction material costs following a reduction in the number of individual cables and leads, cable ducts, terminals and terminal blocks required. The transition to point-to-point wiring takes place directly at the interface element.



Users have a choice between screw, tension clamp or spade connections for connecting actuators and/or sensors. As an option, interface units can also integrate additional functions such as status indicator, signal disconnecter, fuses or shielding. Identification systems make it easier to trace the signals to the corresponding element.

## RSF interface units for pre-assembled leads with plug connectors to IEC 603-1/DIN 41651



Passive interface for 10 ... 64 signals for adapting pre-assembled leads with plug connectors to IEC 603-1 / DIN 41 651 to screw or tension clamp connection systems.

When used in combination with a status indicator (LED), this guarantees rapid information about the switching state of incoming and outgoing signals.

### RSSD interface units for pre-assembled leads with SUB-D plug connectors to IEC 807-2/DIN 41652



Passive interface unit for 9 ... 50 signals for adapting pre-assembled leads with SUB-D plug to IEC 807-2/DIN 41652 to screw or tension clamp connection systems.

The components are supplied with either female or male connectors. A spacer block between plug connector and PCB cushions the mechanical forces occurring between the connected cables. RSSD interface units can be supplied with an ground terminal for shielded leads as an optional feature. An additional test point simplifies testing and measuring during initial setup and when servicing the system.

### RS VERT interface units as voltage distributor



Passive interface units for the distribution of dc supply voltage. These interface units are available in three designs for distribution to 8, 16 and 72 connections, for positive and negative voltages in each case:

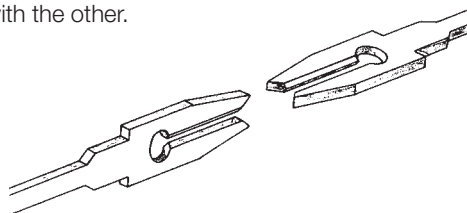
- 8x and 16x distributor just 45 mm wide overall, 72x distributor 100 mm wide
- Fed by two connection elements for positive and negative voltages in each case
- Fits on TS32/35 mounting rails

RS VERT voltage distributors can also be used in small enclosures and provide clearly organized distribution.

### RS ELCO interface units for pre-assembled leads with hermaphrodite plug connector system



Weidmüller's passive interface units are used for adapting hermaphrodite ELCO multi-pole connectors, for input and output, to screw terminal systems. The hermaphrodite contact is a fork-type contact that is identical in design on both sides of the connection, but with one fork turned through 90° to engage with the other.



### RS RJ45 interface units for connecting data lines



The RS RJ45 interface module offers the user a convenient, easy-to-use interface for connecting modems, notebooks and other office equipment in the electrical cabinet.

The module converts the standard RJ45 connection to a screw terminal system or acts as a coupling to connect data leads by means of two RJ45 sockets. For data transmission rates of up to 100 Mbps, it is advisable to connect one end of the shield of the data cable to a protective ground. The interface modules can be fitted on TS 32/35 mounting rails.

# Weidmuller Custom Solutions

It's a Matter of Getting what you need

## Custom Design and Engineering – Designed for Your Application

Great ideas for new products and new applications often push companies into uncharted territory, where existing interface products fall short of their design requirements.



***Our goal is to provide you with the most responsive service possible.***



***Our design team works closely with you each step of the way.***

Weidmuller has an unparalleled record of innovation in interface products extending back over 50 years – and we're happy to make this expertise available to you through our custom engineering services, which include both the design and the manufacture of tailor-made interface products. Whether it's PCB terminal blocks and connectors, DIN-rail terminal blocks, controller front panel adapters or controller interface products, we will work with you to create a custom solution that meets your needs – exactly.

And because our success at Weidmuller rests on long-term relationships, we welcome opportunities to partner with you to create the products you need.



*Weidmuller is your best source for PCB terminal blocks and connectors, DIN-rail terminal blocks, controller front panel adapters and interface products that meet your application needs precisely. We work with you to manage the process carefully to ensure timely delivery and complete satisfaction.*

***With Weidmuller's expertise in custom solutions, there is no need to compromise.***



*Final design drawings are developed for review and approval.*



*We work with you to pinpoint schedule and delivery requirements.*

### 1) Getting it Right from the Start

Once an application is identified, we mobilize our design team immediately. We work with you to pinpoint your design specifications, delivery and scheduling requirements.

As part of this effort, we establish an open line of communication between you and a designated point person for your project. Expert technical support is also available all the way through the project to address issues that arise during the design and manufacturing process.

### 2) Building Relationships Before Building the Product

At Weidmüller, we place a premium on building long-term customer relationships. We will explain our custom design and engineering process in detail, and, as needed, partner with you to meet your needs for custom products.

### 3) Offering Alternatives

One of the advantages of working with Weidmüller is the depth of our product design and manufacturing experience. You can count on us to carefully review the special requirements for your application and, if necessary, present several approaches and to compare the advantages of each one.

### 4) Developing Final Drawings and Models

At Weidmüller, we want to make absolutely sure that a custom product design meets your requirements. Using the latest CAD technology, we create final design drawings and stereolithographic models, as appropriate.

### 5) Establishing Time Frames

Upon your approval, we begin the tooling process, schedule production, and set delivery dates based on the needs of your application. Our Fastrack Custom Solutions can accelerate the custom design and engineering process even further. In many cases, we will produce conceptual drawings for you within two days of project agreement.

## OUR FASTRACK CUSTOM SOLUTIONS ARE THE RIGHT TRACK FOR YOUR PRODUCT DEVELOPMENT NEEDS WHEN:

- **Standard products won't meet your unique application need**
- **You need a design partner to offer innovative alternatives and solutions**
- **You need a truly innovative product to put you ahead of the competition**
- **Market pressures dictate a fast turnaround on a custom product design**



## Interface Units IEC 603-1 - DIN 41651 (Ribbon Connector)

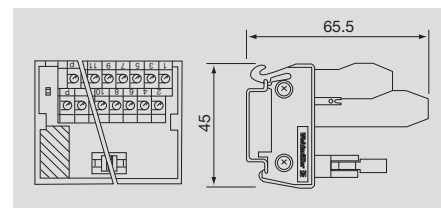
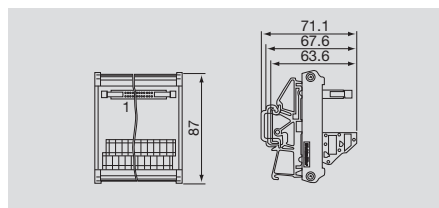
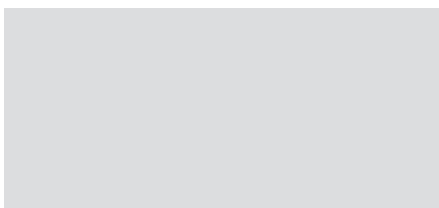
Interface units IEC 603-1  
DIN 41651 (Ribbon connector)

- Pin connector with locking feature to IEC 603-1
- Tension clamp or screw connection system
- 45 or 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

## RSF Z/ IEC 603-1



## RSF S 45 mm/ IEC 603-1



## Technical data

## Connection data

Connection on process side  
Stripping length  
Connection on control side

PCB terminal LM2NZF / Tension clamp  
7.0 mm  
Plug-in connector to IEC 603-1/ DIN 41651

PCB terminal LPK 2 H / Screw connection  
7.0 mm  
Plug-in connector to IEC 603-1/ DIN 41651

## Rated data

Conversion PCB/plug connector  
Rated voltage  
Rated current per connection  
Test voltage (~eff)  
Test torque  
Storage temperature  
Ambient temperature (operational)  
Terminal rail

1:1  
60 V AC/ 75 V DC  
1 A  
1.0 kV  
-40 °C...+70 °C  
0 °C...+55 °C

1:1  
60 V AC/ 75 V DC  
1 A  
1.0 kV  
0.40 Nm  
-40 °C...+70 °C  
0 °C...+55 °C  
TS 35

## Insulation coordination (EN 50178)

Surge category  
Pollution severity

III  
2

III  
2

## Approvals

Standards

EN 50178

EN 50178

Clamping range (rating- / min. / max.)

mm<sup>2</sup>

1.5 / 0.5 / 2.5

1.5 / 0.5 / 2.5

Length x width x height

mm

87.0 x — x 64.0

45.0 x — x 65.5

## Note

## Ordering data

10-pole  
14-pole  
16-pole  
20-pole  
26-pole  
34-pole  
40-pole  
50-pole  
60-pole  
64-pole

| Type     | Width    | Order No.  |
|----------|----------|------------|
| RS F10 Z | 50.0 mm  | 8537190000 |
| RS F14 Z | 50.0 mm  | 8537200000 |
| RS F20 Z | 65.0 mm  | 8537110000 |
| RS F26 Z | 80.0 mm  | 8537180000 |
| RS F34 Z | 110.0 mm | 8537130000 |
| RS F40 Z | 115.0 mm | 8537140000 |
| RS F50 Z | 145.0 mm | 8537150000 |

| Type             | Width    | Order No.  |
|------------------|----------|------------|
| RS F10 LPK 2H/12 | 49.0 mm  | 8155610000 |
| RS F14 LPK 2H/16 | 56.0 mm  | 8258980000 |
| RS F16 LPK 2H/18 | 64.0 mm  | 8265540000 |
| RS F20 LPK 2H/22 | 71.0 mm  | 8155600000 |
| RS F26 LPK 2H/28 | 86.0 mm  | 8213470000 |
| RS F34 LPK 2H/36 | 106.0 mm | 8155590000 |
| RS F40 LPK 2H/42 | 121.0 mm | 8155580000 |
| RS F50 LPK 2H/52 | 150.3 mm | 8155570000 |
| RS F60 LPK 2H/62 | 180.0 mm | 8259000000 |
| RS F64 LPK 2H/66 | 186.0 mm | 8155550000 |

## Note

## Accessories

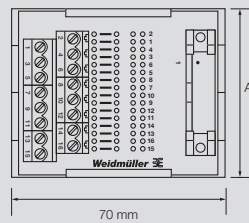
## Note

### For ribbon cable connections according to UL 508A recognition or with accessory holes

- With mounting foot for TS 32, TS 35 x 7.5 and TS 35 x 15 rails
- Male connector block with interlock for female connector block with strain relief according to DIN 41 651/Parts 1 and 2
- Available with screw connection

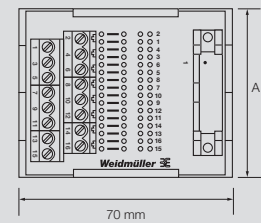
### RI-IDC

Cable interface units for ribbon cables  
Screw connection  
Male Standard



### RI-IDC

Cable interface units for ribbon cables  
Screw connection  
Male with accessory holes



### Technical data

#### Connection data

- Process side
- Type
- Control side
- Type

#### Rated data

Rated voltage  
Rated current per contact  
Operating temperature  
Storage temperature

#### Terminal wire size

Insulation stripping length mm (in.)

#### Dimensions

Overall width mm (in.)

Screw connection  
LP2N terminal  
Plug connection  
Ribbon connector

125 V  
1 A  
-25°C...+50°C  
-40°C...+70°C

#### AWG 26...12

7 (.28)

See table, dim. A

Screw connection  
LP2N terminal  
Plug connection  
Ribbon connector

125 V  
1 A  
-25°C...+50°C  
-40°C...+70°C

#### AWG 26...12

7 (.28)

See table, dim. A

### Ordering data

#### dimensions (mm/in.)

| Poles | Dim. A        | Dim. B     | Dim. C     | Dim. D     |
|-------|---------------|------------|------------|------------|
| 10    | 39.88 (1.57)  | 50 (1.97)  | 49 (1.93)  | 40 (1.57)  |
| 14    | 49.78 (1.96)  | 50 (1.97)  | 56 (2.20)  | 45 (1.77)  |
| 16    | 55.12 (2.17)  | 55 (2.17)  | 64 (2.52)  | 50 (1.97)  |
| 20    | 64.77 (2.55)  | 65 (2.56)  | 71 (2.80)  | 50 (1.97)  |
| 26    | 84.84 (3.34)  | 80 (3.15)  | 86 (3.39)  | 55 (2.17)  |
| 30    | 94.74 (3.73)  |            |            |            |
| 34    | 104.65 (4.12) | 110 (4.33) | 106 (4.17) | 70 (2.76)  |
| 40    | 120.14 (4.73) | 115 (4.53) | 121 (4.76) | 80 (3.15)  |
| 50    | 142.49 (5.60) | 145 (5.71) | 151 (5.94) | 95 (3.74)  |
| 60    | 175.01 (6.89) | 180 (7.09) | 180 (7.09) | 115 (4.53) |
| 64    | 181.61 (7.15) | 180 (7.09) | 186 (7.32) | 120 (4.72) |

On TS 35 x 7.5

| Type                    | Order No. |
|-------------------------|-----------|
| UL 508A — Male standard |           |
| RI-IDC 10               | 915911    |
| RI-IDC 14               | 915912    |
| RI-IDC 16               | 915913    |
| RI-IDC 20               | 915914    |
| RI-IDC 26               | 915915    |
| RI-IDC 30               | 915916    |
| RI-IDC 34               | 915917    |
| RI-IDC 40               | 915918    |
| RI-IDC 50               | 915919    |
| RI-IDC 60               | 915920    |
| RI-IDC 64               | 915921    |

| Type                    | Order No. |
|-------------------------|-----------|
| Male w/ accessory holes |           |
| RI-IDC 10               | 914890    |
| RI-IDC 14               | 914891    |
| RI-IDC 16               | 914892    |
| RI-IDC 20               | 914893    |
| RI-IDC 26               | 914894    |
| RI-IDC 30               | 914895    |
| RI-IDC 34               | 914896    |
| RI-IDC 40               | 914897    |
| RI-IDC 50               | 914898    |
| RI-IDC 60               | 914899    |
| RI-IDC 64               | 914900    |

### Accessories

Mounting rail

End bracket for TS 32  
for TS 35

Terminal wire marking

| Type        | Order No.  |
|-------------|------------|
| TS 32       | 0122800000 |
| TS 35 x 7.5 | 0383400000 |
| TS 35 x 15  | 0498000000 |
| EWK 2       | 0199360000 |
| EW 35       | 0383560000 |
| DEK 5       |            |

| Type        | Order No.  |
|-------------|------------|
| TS 32       | 0122800000 |
| TS 35 x 7.5 | 0383400000 |
| TS 35 x 15  | 0498000000 |
| EWK 2       | 0199360000 |
| EW 35       | 0383560000 |
| DEK 5       |            |

## Interface Units IEC 603-1 - DIN 41651 (Ribbon Connector)

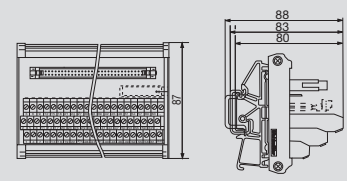
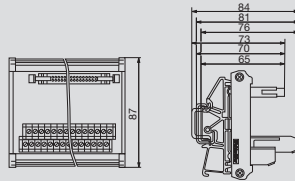
Interface units IEC 603-1  
DIN 41651 (Ribbon connector)

- Pin connector with locking feature to IEC 603-1
- Screw connection system
- 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

## RSF S/ IEC 603 -1



## RSF S/ IEC 603-1



## Technical data

## Connection data

Connection on process side  
Stripping length  
Connection on control side

PCB terminal LP2N  
7.0 mm  
Plug-in connector to IEC 603-1/ DIN 41651

PCB terminal LP3R  
7.0 mm  
Plug-in connector to IEC 603-1/ DIN 41651

## Rated data

Conversion PCB/plug connector  
Rated voltage  
Rated current per connection  
Test voltage (~eff)  
Test torque  
Storage temperature  
Ambient temperature (operational)  
Terminal rail

1:1  
60 V AC/ 75 V DC  
1 A  
1.0 kV  
0.50 Nm  
-40 °C...+60 °C  
0 °C...+55 °C  
TS 32, TS 35

1:1  
60 V AC/ 75 V DC  
1 A  
1.0 kV  
0.50 Nm  
-40 °C...+70 °C  
0 °C...+55 °C  
TS 32, TS 35

## Insulation coordination (EN 50178)

Surge category  
Pollution severity

III  
2

III  
2

## Approvals

Standards

EN 50178

EN 50178

Clamping range (rating- / min. / max.)

mm<sup>2</sup>

2.5 / 0.5 / 4

Length x width x height

mm

87.0 x – x 70.0

2.5 / 0.5 / 4

87.0 x – x 76.0

## Note

## Ordering data

10-pole  
14-pole  
16-pole  
20-pole  
26-pole  
34-pole  
40-pole  
50-pole  
60-pole  
64-pole

| Type             | Width    | Order No.  |
|------------------|----------|------------|
| RS F10 LP2N 5/10 | 50.0 mm  | 0224961001 |
| RS F14 LP2N 5/14 | 50.0 mm  | 0225061001 |
| RS F16 LP2N 5/16 | 55.0 mm  | 0225161001 |
| RS F20 LP2N 5/20 | 65.0 mm  | 0224261001 |
| RS F26 LP2N 5/26 | 80.0 mm  | 0224861001 |
| RS F34 LP2N 5/34 | 110.0 mm | 0224361001 |
| RS F40 LP2N 5/40 | 115.0 mm | 0224461001 |
| RS F50 LP2N 5/50 | 145.0 mm | 0224561001 |
| RS F60 LP2N 5/60 | 180.0 mm | 0224661001 |
| RS F64 LP2N 5/64 | 180.0 mm | 0224761001 |

| Type             | Width    | Order No.  |
|------------------|----------|------------|
| RS F10 LP3R 3/12 | 40.0 mm  | 8012850000 |
| RS F14 LP3R 3/14 | 45.0 mm  | 8012860000 |
| RS F16 LP3R 3/18 | 50.0 mm  | 8012870000 |
| RS F20 LP3R 3/21 | 50.0 mm  | 8012910000 |
| RS F26 LP3R 3/27 | 55.0 mm  | 8012920000 |
| RS F34 LP3R 3/36 | 70.0 mm  | 8012930000 |
| RS F40 LP3R 3/42 | 80.0 mm  | 8012940000 |
| RS F50 LP3R 3/51 | 95.0 mm  | 8012950000 |
| RS F60 LP3R 3/63 | 115.0 mm | 8012960000 |
| RS F64 LP3R 3/66 | 120.0 mm | 8012970000 |

## Note

## Accessories

## Note

## For D-subminiature plug-in connectors according to UL 508A recognition

- With mounting foot for TS 32, TS 35 x 7.5 and TS 35 x 15 rails
- Male and female connectors with screw/locking system UNC 4/40
- Available with screw connection

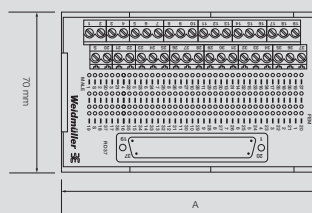
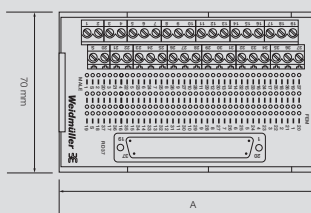
### RD

Male connector  
Standard



### RD

Female connector  
Standard



## Technical data

### Connection data

- Process side
- Type
- Control side
- Type

### Rated data

Rated voltage  
Rated current per contact  
Operating temperature  
Storage temperature

### Terminal wire size

Insulation stripping length mm (in.)

### Dimensions

Overall width mm (in.)

Screw connection  
LP2N terminal  
Plug connection  
Sub-D

150 V  
1.5 A  
-25°C...+50°C  
-40°C...+70°C

### AWG 26...12

7 (.28)

See table, dim. A

Screw connection  
LP2N terminal  
Plug connection  
Sub-D

150 V  
1.5 A  
-25°C...+50°C  
-40°C...+70°C

### AWG 26...12

7 (.28)

See table, dim. A

## Ordering data

### dimensions (mm/in.)

| Poles | Cable Connector Retainer* | Dim. A        |
|-------|---------------------------|---------------|
| 9     | Screw                     | 39.88 (1.57)  |
| 9     | Jackscrew                 | 39.88 (1.57)  |
| 15    | Screw                     | 55.12 (2.17)  |
| 15    | Jackscrew                 | 55.12 (2.17)  |
| 25    | Screw                     | 85.09 (3.35)  |
| 25    | Jackscrew                 | 85.09 (3.35)  |
| 37    | Screw                     | 116.84 (4.60) |
| 37    | Jackscrew                 | 116.84 (4.60) |
| 50    | Screw                     | 149.35 (5.88) |
| 50    | Jackscrew                 | 149.35 (5.88) |

On TS 35 x 7.5

| Type                    | Order No. |
|-------------------------|-----------|
| UL 508A — Male standard |           |
| RD-9                    | 915933    |
| RD-9JS                  | 915935    |
| RD-15                   | 915958    |
| RD-15JS                 | 915941    |
| RD-25                   | 915947    |
| RD-25JS                 | 915949    |
| RD-37                   | 915954    |
| RD-37JS                 | 915956    |
| RD-50                   | 919658    |
| RD-50JS                 | 919656    |

| Type                      | Order No. |
|---------------------------|-----------|
| UL 508A — Female standard |           |
| RD-9                      | 915934    |
| RD-9JS                    | 915936    |
| RD-15                     | 915940    |
| RD-15JS                   | 915942    |
| RD-25                     | 915948    |
| RD-25JS                   | 915953    |
| RD-37                     | 915955    |
| RD-37JS                   | 915957    |
| RD-50                     | 919657    |
| RD-50JS                   | 919655    |

## Accessories

|                       |                        |
|-----------------------|------------------------|
| Mounting rail         |                        |
| End bracket           | for TS 32<br>for TS 35 |
| Terminal wire marking |                        |

### Note :

\* Cable connector retainer has either a jackscrew receptacle for a thumb screw or has a mounted screw in the module cable connector.

| Type        | Order No.  |
|-------------|------------|
| TS 35 x 7.5 | 0383400000 |
| TS 35 x 15  | 0498000000 |
| EWK 2       | 0199360000 |
| EW 35       | 0383560000 |
| DEK 5       |            |

| Type        | Order No.  |
|-------------|------------|
| TS 35 x 7.5 | 0383400000 |
| TS 35 x 15  | 0498000000 |
| EWK 2       | 0199360000 |
| EW 35       | 0383560000 |
| DEK 5       |            |



## Interface Units IEC 807-2 - DIN 41652 (Sub-D Connector)

### For D-subminiature plug-in connectors with accessory holes

- With mounting foot for TS 32, TS 35 x 7.5 and TS 35 x 15 rails
- Male and female connectors with screw/locking system UNC 4/40
- Available with screw connection

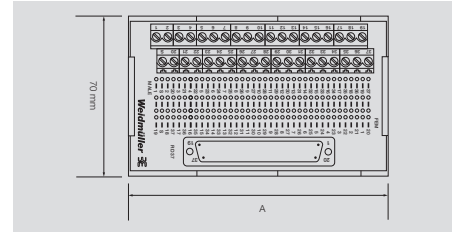
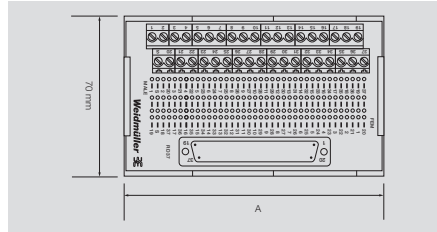
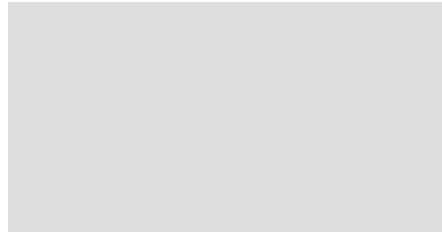
#### RD

Male connector with accessory holes



#### RD

Female connector with accessory holes



### Technical data

#### Connection data

- Process side
- Type
- Control side
- Type

Screw connection  
LP2N terminal  
Plug connection  
Sub-D

Screw connection  
LP2N terminal  
Plug connection  
Sub-D

#### Rated data

Rated voltage  
Rated current per contact  
Operating temperature  
Storage temperature

150 V  
1.5 A  
-25°C...+50°C  
-40°C...+70°C

150 V  
1.5 A  
-25°C...+50°C  
-40°C...+70°C

#### Terminal wire size

Insulation stripping length mm (in.)

**AWG 26...12**  
7 (.28)

**AWG 26...12**  
7 (.28)

#### Dimensions

Overall width mm (in.)

See table, dim. A

See table, dim. A

### Ordering data

#### dimensions (mm/in.)

| Poles | Cable Connector Retainer* | Dim. A        |
|-------|---------------------------|---------------|
| 9     | Screw                     | 39.88 (1.57)  |
| 9     | Jackscrew                 | 39.88 (1.57)  |
| 15    | Screw                     | 55.12 (2.17)  |
| 15    | Jackscrew                 | 55.12 (2.17)  |
| 25    | Screw                     | 85.09 (3.35)  |
| 25    | Jackscrew                 | 85.09 (3.35)  |
| 37    | Screw                     | 116.84 (4.60) |
| 37    | Jackscrew                 | 116.84 (4.60) |
| 50    | Screw                     | 149.35 (5.88) |
| 50    | Jackscrew                 | 149.35 (5.88) |

On TS 35 x 7.5

| Type                    | Order No.     |
|-------------------------|---------------|
| Male w/ accessory holes |               |
| RD-9                    | <b>912385</b> |
| RD-9JS                  | <b>910638</b> |
| RD-15                   | <b>912395</b> |
| RD-15JS                 | <b>910644</b> |
| RD-25                   | <b>912405</b> |
| RD-25JS                 | <b>910648</b> |
| RD-37                   | <b>913155</b> |
| RD-37JS                 | <b>910642</b> |
| RD-50                   | <b>911883</b> |
| RD-50JS                 | <b>911884</b> |

| Type                      | Order No.     |
|---------------------------|---------------|
| Female w/ accessory holes |               |
| RD-9                      | <b>912380</b> |
| RD-9JS                    | <b>910641</b> |
| RD-15                     | <b>912390</b> |
| RD-15JS                   | <b>912393</b> |
| RD-25                     | <b>912400</b> |
| RD-25JS                   | <b>910645</b> |
| RD-37                     | <b>910075</b> |
| RD-37JS                   | <b>910640</b> |
| RD-50                     | <b>911885</b> |
| RD-50JS                   | <b>911886</b> |

### Accessories

|                       |                        |
|-----------------------|------------------------|
| Mounting rail         |                        |
| End bracket           | for TS 32<br>for TS 35 |
| Terminal wire marking |                        |

#### Note :

\*Cable connector retainer has either a jackscrew receptacle for a thumb screw or has a mounted screw in the module cable connector.

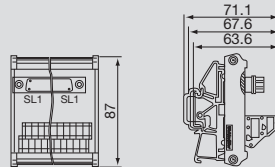
| Type        | Order No.         |
|-------------|-------------------|
| TS 35 x 7.5 | <b>0383400000</b> |
| TS 35 x 15  | <b>0498000000</b> |
| EWK 2       | <b>0199360000</b> |
| EW 35       | <b>0383560000</b> |
| DEK 5       |                   |

| Type        | Order No.         |
|-------------|-------------------|
| TS 35 x 7.5 | <b>0383400000</b> |
| TS 35 x 15  | <b>0498000000</b> |
| EWK 2       | <b>0199360000</b> |
| EW 35       | <b>0383560000</b> |
| DEK 5       |                   |

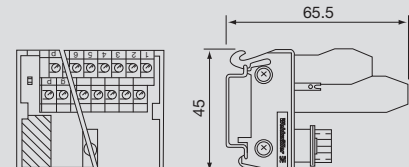
## Interface units IEC 807-2 DIN 41652 (Sub-D connector)

- Pin and socket connector with screw locking system UNC 4/40
- Tension clamp or screw connection system
- 45 or 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

### RSSD Z/ SUB-D



### RSSD S/ SUB-D



## Technical data

### Connection data

Connection on process side  
Stripping length  
Connection on control side

PCB terminal LM2NZF / Tension clamp  
7.0 mm  
D-SUB acc. IEC 807-2

PCB terminal LPK 2 H / Screw connection  
7.0 mm  
D-SUB acc. IEC 807-2

### Rated data

Conversion PCB/plug connector  
Rated voltage  
Rated current per connection  
Test voltage (~eff)  
Test torque  
Storage temperature  
Ambient temperature (operational)  
Terminal rail

1:1  
125 V AC/ 150 V DC  
1.5 A  
0.6 kV  
-40 °C...+70 °C  
0 °C...+55 °C  
TS 35 - TS 32

1:1  
125 V AC/ 150 V DC  
1.5 A  
0.6 kV  
0.40 Nm  
-40 °C...+70 °C  
0 °C...+55 °C  
TS 35

### Insulation coordination (EN 50178)

Surge category  
Pollution severity

III  
2

III  
2

### Approvals

Standards

EN 50178

EN 50178

Clamping range (rating- / min. / max.)

mm<sup>2</sup>

1.5 / 0.5 / 2.5

Length x width x height

mm

87.0 x — x 63.6

1.5 / 0.5 / 2.5

45.0 x — x 65.5

### Note

## Ordering data

|                   |         |
|-------------------|---------|
| Male connectors   | 9-pole  |
| Male connectors   | 15-pole |
| Male connectors   | 25-pole |
| Male connectors   | 37-pole |
| Male connectors   | 50-pole |
| Female connectors | 9-pole  |
| Female connectors | 15-pole |
| Female connectors | 25-pole |
| Female connectors | 37-pole |
| Female connectors | 50-pole |

| Type       | Width    | Order No.  |
|------------|----------|------------|
| RS SD9 SZ  | 45.0 mm  | 8537260000 |
| RS SD15 SZ | 60.0 mm  | 8537390000 |
| RS SD25 SZ | 80.0 mm  | 8537370000 |
| RS SD37 SZ | 110.0 mm | 8537240000 |
| RS SD50 SZ | 145.0 mm | 8537350000 |
| RS SD9 BZ  | 45.0 mm  | 8537320000 |
| RS SD15 BZ | 60.0 mm  | 8537400000 |
| RS SD25 BZ | 80.0 mm  | 8537380000 |
| RS SD37 BZ | 110.0 mm | 8537250000 |

| Type              | Width    | Order No.  |
|-------------------|----------|------------|
| RS SD9S UNC LPK2  | 50.0 mm  | 8259010000 |
| RS SD15S UNC LPK2 | 61.0 mm  | 8233350000 |
| RS SD25S UNC LPK2 | 86.0 mm  | 8155650000 |
| RS SD37S UNC LPK2 | 116.0 mm | 8155660000 |
| RS SD50S UNC LPK2 | 154.0 mm | 8155670000 |
| RS SD9B UNC LPK2  | 50.0 mm  | 8216480000 |
| RS SD15B UNC LPK2 | 61.0 mm  | 8209730000 |
| RS SD25B UNC LPK2 | 86.0 mm  | 8155620000 |
| RS SD37B UNC LPK2 | 116.0 mm | 8155630000 |
| RS SD50B UNC LPK2 | 154.0 mm | 8155640000 |

### Note

## Accessories

### Note

## Interface Units IEC 807-2 - DIN 41652 (Sub-D Connector)

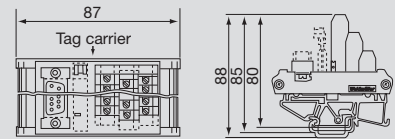
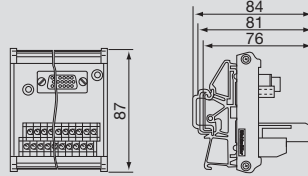
### Interface units IEC 807-2 DIN 41652 (Sub-D connector)

- Pin and socket connector with screw locking system UNC 4/40
- PCB connection element with screw connection
- Clip-on foot for mounting on TS32, TS35 x 7.5 and TS35 x 15

### RSSD S/ SUB-D



### RSSD S/ SUB-D



### Technical data

#### Connection data

Connection on process side  
Stripping length  
Connection on control side

PCB terminal LP2N  
7.0 mm  
D-SUB acc. IEC 807-2

PCB terminal LP3R  
7.0 mm  
D-SUB acc. IEC 807-2

#### Rated data

Conversion PCB/plug connector  
Rated voltage  
Rated current per connection  
Test voltage (~eff)  
Test torque  
Storage temperature  
Ambient temperature (operational)  
Terminal rail

1:1  
125 V AC/ 150 V DC  
1.5 A  
0.6 kV  
0.50 Nm  
-40 °C...+70 °C  
0 °C...+55 °C  
TS 32, TS 35

1:1  
125 V AC/ 150 V DC  
1.5 A  
0.6 kV  
0.50 Nm  
-40 °C...+70 °C  
0 °C...+55 °C  
TS 32, TS 35

#### Insulation coordination (EN 50178)

Surge category  
Pollution severity

III  
2

III  
2

#### Approvals

Standards

EN 50178

EN 50178

Clamping range (rating- / min. / max.)

mm<sup>2</sup>

2.5 / 0.5 / 4

Length x width x height

mm

87.0 x — x 76.0

2.5 / 0.5 / 4

87.0 x — x 80.0

#### Note

### Ordering data

|                   |         |
|-------------------|---------|
| Male connectors   | 9-pole  |
| Male connectors   | 15-pole |
| Male connectors   | 25-pole |
| Male connectors   | 37-pole |
| Male connectors   | 50-pole |
| Female connectors | 9-pole  |
| Female connectors | 15-pole |
| Female connectors | 25-pole |
| Female connectors | 37-pole |
| Female connectors | 50-pole |

| Type                   | Width    | Order No.         |
|------------------------|----------|-------------------|
| RS SD9S UNC 4.40 LP2N  | 45.0 mm  | <b>8003901001</b> |
| RS SD15S UNC 4.40      | 60.0 mm  | <b>8005201001</b> |
| RS SD25S UNC 4.40 LP2N | 80.0 mm  | <b>8005181001</b> |
| RS SD37S UNC 4.40 LP2N | 110.0 mm | <b>8003881001</b> |
| RS SD50S UNC 4.40 LP2N | 154.0 mm | <b>8005161001</b> |
| RS SD9B UNC 4.40 LP2N  | 45.0 mm  | <b>8003911001</b> |
| RS SD15B UNC 4.40 LP2N | 60.0 mm  | <b>8005211001</b> |
| RS SD25B UNC 4.40 LP2N | 80.0 mm  | <b>8005191001</b> |
| RS SD37B UNC 4.40 LP2N | 110.0 mm | <b>8003891001</b> |
| RS SD50B UNC 4.40 LP2N | 154.0 mm | <b>8005171001</b> |

| Type          | Width    | Order No.         |
|---------------|----------|-------------------|
| RS SD9S LP3R  | 40.0 mm  | <b>8019930000</b> |
| RS SD15S LP3R | 45.0 mm  | <b>8019940000</b> |
| RS SD25S LP3R | 60.0 mm  | <b>8019950000</b> |
| RS SD37S LP3R | 80.0 mm  | <b>8019960000</b> |
| RS SD50S LP3R | 100.0 mm | <b>8019970000</b> |
| RS SD9B LP3R  | 40.0 mm  | <b>8019880000</b> |
| RS SD15B LP3R | 45.0 mm  | <b>8019890000</b> |
| RS SD25B LP3R | 60.0 mm  | <b>8019900000</b> |
| RS SD37B LP3R | 80.0 mm  | <b>8019910000</b> |
| RS SD50B LP3R | 100.0 mm | <b>8019920000</b> |

#### Note

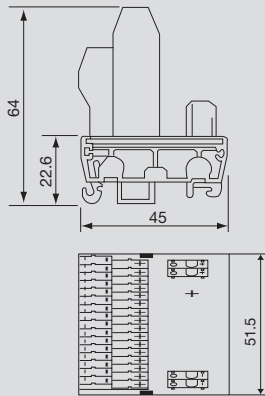
### Accessories

#### Note

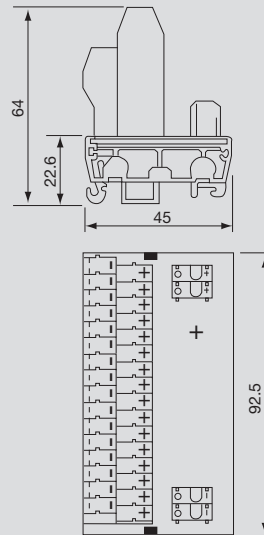
Supply voltage distributor modules

- Distribution module for 2 supply connections to 8 or 16 potential distribution terminals
- 45 mm wide
- Potential distributor designed as two level connection element
- Total current max. 10 A
- For mounting on rail TS35 x 7.5 and TS35 x 15

RS VERT 8 LPK2



RS VERT 16 LPK2



Technical data

| Connection data                        |     |
|--|-----|
| Connection on process side             |     |
| Stripping length                       |     |
| Conversion PCB/plug connector          |     |
| Rated data                             |     |
| Rated voltage                          |     |
| Total current feed, max.               |     |
| Electrical distribution, plus/minus    |     |
| Storage temperature                    |     |
| Ambient temperature (operational)      |     |
| Housing/Terminal rail                  |     |
| Insulation coordination (EN 50178)     |     |
| Surge category/Pollution severity      |     |
| Dimensions                             |     |
| Clamping range (rating- / min. / max.) | mm² |
| Length x width x height                | mm  |
| Note                                   |     |

| PCB terminal LPK 2/ Screw connection               |  |  |
|--|--|--|
| 7.0 mm   |  |  |
| 8-way supply voltage distributor +/- / 2-pole feed |  |  |
| 24 V AC/DC   |  |  |
| 10 A   |  |  |
| +/- potential                                      |  |  |
| -40 °C...+60 °C                                    |  |  |
| 0 °C...+55 °C                                      |  |  |
| RS 45 section /TS 35                               |  |  |
| III /2   |  |  |
| 1.5 / 0.5 / 2.5                                    |  |  |
| 45 x 51.5 x 64                                     |  |  |
| Note   |  |  |

| PCB terminal LPK 2 / Screw connection               |  |  |
|---|--|--|
| 7.0 mm  |  |  |
| 16-way supply voltage distributor +/- / 2-pole feed |  |  |
| 24 V AC/DC  |  |  |
| 10 A  |  |  |
| +/- potential                                       |  |  |
| -40 °C...+60 °C                                     |  |  |
| 0 °C...+55 °C                                       |  |  |
| RS 45 section /TS 35                                |  |  |
| III /2  |  |  |
| 1.5 / 0.5 / 2.5                                     |  |  |
| 45 x 92.5 x 64                                      |  |  |
| Note  |  |  |

Ordering data

| Type          | Qty. | Order No.  |
|---------------|------|------------|
| RS VERT8 LPK2 | 1    | 8252010000 |
|               |      |            |
|               |      |            |
| Note          |      |            |

| Type           | Qty. | Order No.  |
|----------------|------|------------|
| RS VERT16 LPK2 | 1    | 8234620000 |
|                |      |            |
|                |      |            |
| Note           |      |            |

| Type           | Qty. | Order No.  |
|----------------|------|------------|
| RS VERT16 LPK2 | 1    | 8234620000 |
|                |      |            |
|                |      |            |
| Note           |      |            |

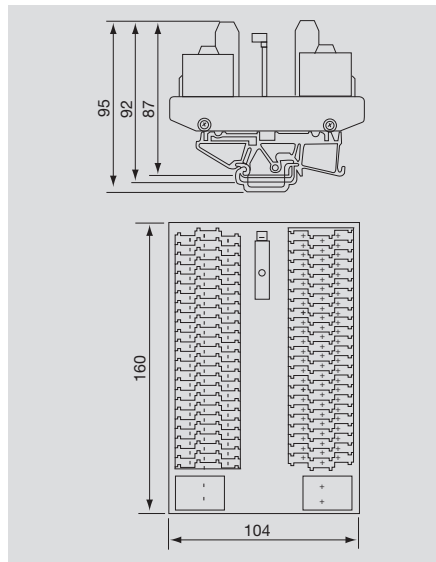


## Supply Voltage Distributor Modules

### Supply voltage distributor modules

- Distribution module for 2 supply connections to 72 potential distribution terminals
- Potential distributor designed as three level connection element
- Total current max. 20 A
- For mounting on rail TS 32/35

### RS VERT 144 LPK3



### Technical data

#### Connection data

Connection on process side  
Stripping length  
Conversion PCB/plug connector

PCB terminal LPK 3 / Screw connection  
7.0 mm  
72-way supply voltage distributor +/- / 2-pole feed

#### Rated data

Rated voltage  
Total current feed, max.  
Electrical distribution, plus/minus  
Storage temperature  
Ambient temperature (operational)  
Housing/Terminal rail

250 V AC/DC  
20 A  
+/- potential  
-40 °C...+60 °C  
0 °C...+55 °C  
RS 100 section /TS 32, TS 35

#### Insulation coordination (EN 50178)

Surge category/Pollution severity

III /2

#### Dimensions

Clamping range (rating- / min. / max.) mm²  
Length x width x height mm

1.5 / 0.5 / 2.5  
104 x 160 x 87

#### Note

### Ordering data

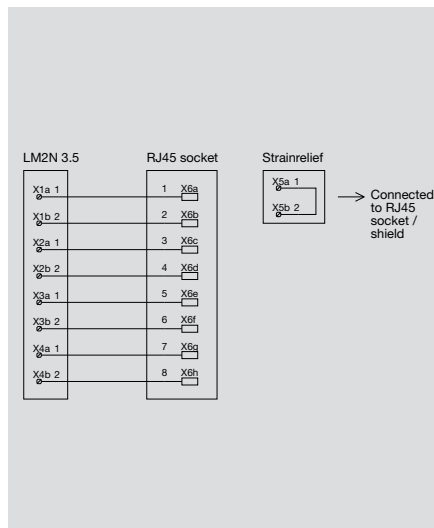
| Type             | Qty. | Order No.  |
|------------------|------|------------|
| RS LPK3/144 VERT | 1    | 8199510000 |

#### Note

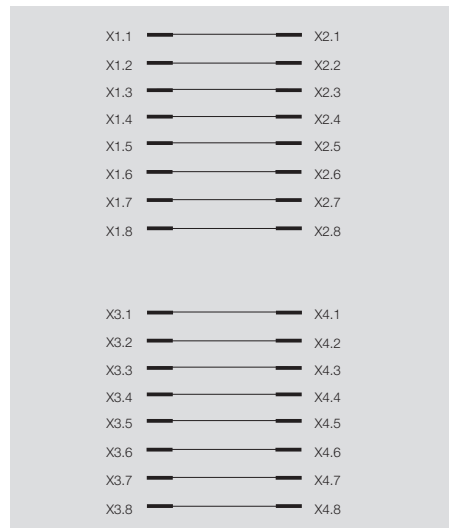
## Interface units with RJ45 plug connectors

- Direct coupling of PC and modem in control cabinet
- Connection of typical office equipment
- Data rate Cat5 100 Mbit
- Available as RJ 45/screw connection conversion or as RJ 45 coupling
- For mounting on rail TS 32/35

### RS RJ45



### RS RJ45 2WAY



## Technical data

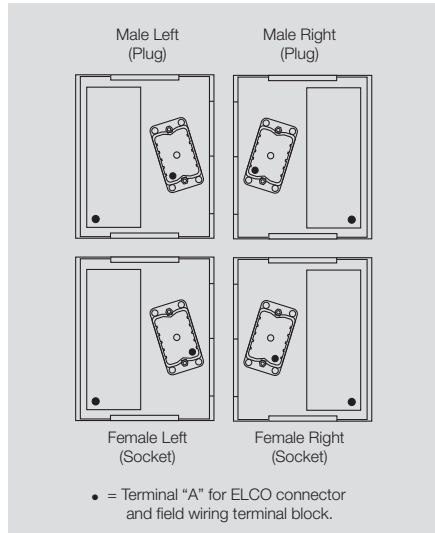
| Connection data                        |     | Connection data  |  | Connection data  |  |
|--|-----|--|--|--|--|
| Connection on process side             |     | screw connection/ RJ45 plug-in connector                       |  | 2 x RJ45 connector   |  |
| Connection on control side             |     | screw connection/ RJ45 plug-in connector                       |  | 2 x RJ45 connector   |  |
| Design                                 |     | RJ45 female connector  |  | RJ45 female connector  |  |
| Conversion PCB/plug connector          |     | 1:1  |  | 1:1, RJ45 coupling   |  |
| Rated data                             |     | Rated data   |  | Rated data   |  |
| Rated current per connection           |     | 1.5 A  |  | 1.5 A  |  |
| Number of signals                      |     | 8 shielded   |  | 8 shielded   |  |
| Contact material                       |     | phosphor- bronze 6μ AU   |  | phosphor- bronze 6μ AU   |  |
| Storage temperature                    |     | -40 °C...+70 °C  |  | -40 °C...+70 °C  |  |
| Ambient temperature (operational)      |     | 0 °C...+55 °C  |  | 0 °C...+55 °C  |  |
| Housing                                |     | RS 70 section  |  | RS 70 section  |  |
| Terminal rail                          |     | TS 32, TS 35   |  | TS 32, TS 35   |  |
| Insulation coordination (EN 50178)     |     | Insulation coordination (EN 50178)                             |  | Insulation coordination (EN 50178)                             |  |
| Surge category/Pollution severity      |     | II /2  |  | II /2  |  |
| Dimensions                             |     | Dimensions   |  | Dimensions   |  |
| Clamping range (rating- / min. / max.) | mm² | 1.5 / 0.5 / 1.5  |  | 70 x 38 x 48   |  |
| Length x width x height                | mm  | 70 x 30 x 48   |  | 70 x 38 x 48   |  |
| Note                                   |     | Note   |  | Note   |  |
|  |     | Connect shielding of data line to protective ground at one end |  | Connect shielding of data line to protective ground at one end |  |

## Ordering data

| Type    | Qty. | Order No.  | Type         | Qty. | Order No.  |
|---------|------|------------|--------------|------|------------|
| RS RJ45 | 10   | 8611320000 | RS RJ45 2WAY | 1    | 8555440000 |
| RJ 4A   |      | 912171     |              |      |            |
| RJ 6A   |      | 911915     |              |      |            |
| RJ 8A   |      | 911916     |              |      |            |
| Note    |      |            |              |      |            |
|         |      |            |              |      |            |

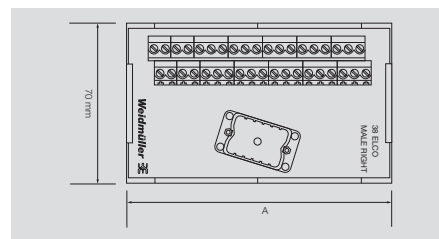
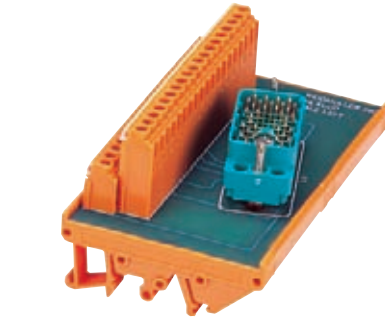
## ELCO Interface Unit

### Cable interface units designed according to UL 508A recognition



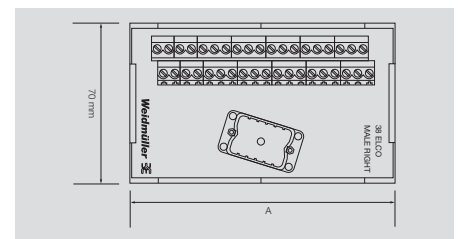
### ELCO

Male connector  
Standard



### ELCO

Female connector  
Standard



### Technical data

#### Connection data

- Process side
- Type
- Control side
- Type

#### Rated data

Rated voltage  
Rated current per contact  
Operating temperature  
Storage temperature

#### Terminal wire size

Insulation stripping length      mm (in.)

#### Dimensions

Overall width      mm (in.)

Screw connection  
LP2N terminal  
Plug connection  
ELCO

125 V  
3.5 A  
-25°C...+50°C  
-40°C...+70°C

#### AWG 26...12

7 (.28)

See table, dim. A

Screw connection  
LP2N terminal  
Plug connection  
ELCO

125 V  
3.5 A  
-25°C...+50°C  
-40°C...+70°C

#### AWG 26...12

7 (.28)

See table, dim. A

### Ordering data

#### dimensions (mm/in.)

| Poles | Cable                  |                    |  | Dim. A        |
|-------|------------------------|--------------------|--|---------------|
|       | Connector Orientation* | Connector Retainer |  |               |
| 38    | Left                   | Center Screw       |  | 119.63 (4.71) |
| 38    | Right                  | Center Screw       |  | 119.63 (4.71) |
| 56    | Left                   | Center Screw       |  | 174.75 (6.88) |
| 56    | Right                  | Center Screw       |  | 174.75 (6.88) |

| Type           | Order No. |
|----------------|-----------|
| <b>Male</b>    |           |
| RS-ELCO 38 M/L | 912126    |
| RS-ELCO 38 M/R | 912127    |
| RS-ELCO 56 M/L | 912131    |
| RS-ELCO 56 M/R | 912132    |

| Type           | Order No. |
|----------------|-----------|
| <b>Female</b>  |           |
| RS-ELCO 38 F/L | 912128    |
| RS-ELCO 38 F/R | 912129    |
| RS-ELCO 56 F/L | 912133    |
| RS-ELCO 56 F/R | 912134    |

### Accessories

Mounting rail

End bracket      for TS 32  
for TS 35

#### Note :

"The purpose for the different designations, "left" and "right" are relative to the direction the interconnecting cable is plugged into the interface module. ELCO connector cables generally use #14 AWG wire which does not bend easily.

| Type        | Order No.  |
|-------------|------------|
| TS 32       | 0122800000 |
| TS 35 x 7.5 | 0383400000 |
| TS 35 x 15  | 0498000000 |
| EWK 2       | 0199360000 |
| EW 35       | 0383560000 |

The angled connector reduces the side load torque on the cable connector and printed circuit board by guiding the cable on an angle to the wire duct.

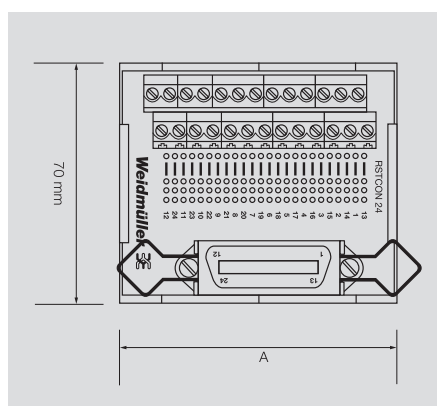
| Type        | Order No.  |
|-------------|------------|
| TS 32       | 0122800000 |
| TS 35 x 7.5 | 0383400000 |
| TS 35 x 15  | 0498000000 |
| EWK 2       | 0199360000 |
| EW 35       | 0383560000 |

Designates plug (S – male) or socket (B – female) connector on the interface module.

## Multi-pole cable connector for SCSII applications

### T-CON

Female connector with accessory holes



### Technical data

#### Connection data

- Process side
- Type
- Control side
- Type

Screw connection  
LP2N terminal  
Plug connection  
T-Con

#### Rated data

Rated voltage  
Rated current per contact  
Operating temperature  
Storage temperature

60 V  
100 mA  
-25°C...+50°C  
-40°C...+70°C

#### Terminal wire size

Insulation stripping length mm (in.)

AWG 26...12  
7 (.28)

#### Dimensions

Overall width mm (in.)

See table, Dim. A

### Ordering data

#### dimensions (mm/in.)

| Poles | Connector Retainer | Dim. A        |
|-------|--------------------|---------------|
| 50    | Bale Latch         | 149.35 (5.88) |

| Type          | Order No. |
|---------------|-----------|
| RS-TCON 50 AF | 912201    |

### Accessories

Mounting rail

End bracket for TS 32  
for TS 35

| Type        | Order No.  |
|-------------|------------|
| TS 32       | 0122800000 |
| TS 35 x 7.5 | 0383400000 |
| TS 35 x 15  | 0498000000 |
| EWK 2       | 0199360000 |
| EW 35       | 0383560000 |

Note :



