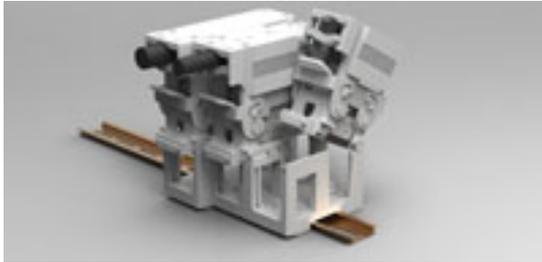


## DIN Rail Adapter for Industrial Connectors Offers Pivot Action for Rapid Testing



TE Connectivity (TE) introduced the HTS DIN rail adapter. This adapter can be snapped onto EN60715 rails (IEC 715) typically used in switch cabinets. Mounting directly onto a DIN rail – sometimes referred to as mounting rail or TS 35 rail – using industrial connectors instead of modular terminal blocks can significantly simplify connecting one switch cabinet to another within the architecture of a distributed automation, according to the company. Another typical application is building wiring. The HTS DIN rail adapter comes in two sizes that suffice to cover four sizes of inserts from TE's range of rectangular industrial connectors. As the adapter's frame consists of two parts, the smaller version can be adjusted to accommodate insert sizes 3, 4 and 6 by simply pushing the frame halves together until the appropriate click-stop position is reached. The larger version accepts size 8 multi-pole inserts that can hold up to 128 positions. Once the adapter size has been adjusted, it is snapped on a DIN rail.

The terminated connector is then fixed onto it by four M3 screws that are secured in brass sleeves. This can be done with a standard tool. To support quality control, the adapter design includes a fulcrum that allows the fully terminated, mounted connector to be pivoted 100 degrees. By doing this the cabinet builder has access to the front and rear side of the connector. Using a small probe, each position can be easily tested for continuity. Once the test sequence is completed, the connector is simply swiveled back in place and is ready for service.

After the industrial connector housing has been engaged with the mounted plug, a locking lever holds the two connector halves together. The adapter's cam profile locking mechanism applies a spring load to the lever to prevent it from being accidentally operated. This added safety feature makes handling within densely packed cabinets easier. When the lever reaches its locking position, the spring load generates a tactile feedback. If the connector needs to be unmated, the locking mechanism's cam profile will help to disengage the connector halves.

As space inside a cabinet is often at a premium, the adapter design is symmetrical. It can be mounted horizontally or vertically to make the best use of the available space. The cable can enter from any direction, which is helpful if the adapter has to be mounted at the very bottom or top of a cabinet. Possible cable gauges range up to 16 mm<sup>2</sup> (AWG 26 - 4). If an application should require it, the adapter can also be panel-mounted.

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The HTS DIN rail adapter frame is made from glass fiber reinforced plastic (GRP). Being essentially an industrial connector accessory, the rail adapter itself has no electrical properties. Its dimensions are in accordance with EN 60715 (IEC 715). It is now available worldwide.

### **TE Connectivity**

717-592-4445, [www.te.com](http://www.te.com) [1]

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[1] <http://www.te.com>