

# Phoenix Contact's top ten physical layer customer benefits

1. Reduce installation time using instrumentation tray cable and eliminate the need for conduit runs from individual devices. Under the National Electric Code article 727, instrumentation tray cable (ITC) can be used without a metallic sheath or armor between the cable tray and equipment.
2. Expand your Fieldbus system without disrupting communication using T-bus connectivity.
3. Stress and vibration often effect the integrity of signals at the point of connection. Connector construction that integrates an anti-vibration brake prevent loosening of the coupling in high vibration situations.
4. Modular segment protection enables flexibility within your Fieldbus network.
5. Fast start-up for field devices using cable drops and junction tees. Junction tees make a necessary connection from the main trunk line to a device. This plug-n-play connection simplifies installation of new devices to the network.
6. Save on valuable enclosure space by installing only the number of device couplers needed.
7. Apply a terminator to the end of a segment to prevent reflection of fieldbus signals.
8. Complete control of fieldbus segment protection with a scalable architecture.
9. In hazardous areas it is important to select a 7/8 connector with the leading PE contact. This first-make/last-break contact prevents sparking when unplugging the device connection.
10. Fieldbus integrity is a hot-swappable modular design.

## USA

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