

Trusted Special I/O Cables

Product Overview

This document provides detailed information for the TC-800 series of Trusted® input/output (I/O) Cables. These types of cable provide connection facilities between the Trusted analogue and digital I/O modules and Field Termination Assemblies (FTAs), for cases which do not fit into the other I/O cable series.

The types of TC-800 Trusted Cables currently available are listed in Table 1 below.

Cable Type	Description
TC-801-02-xmx	I/O Companion Slot, Speed Monitor Module to Speed FTAs
TC-801-03-xmx	I/O Companion Slot, Speed Monitor Module to Speed FTAs (UL)

Table 1 Trusted I/O Companion Slot Cables

The cables are manufactured to user's requirements, therefore length and type of cable insulation must be specified. Length must be specified to the nearest 0.5 m in the format xmx, e.g. 2m0 for a cable length of 2.0 m. This detail must be added to the end of the part number. The type of cable insulation forms part of the cable part number and is denoted by 02 for Low Smoke Zero Halogen (LSZH) or 03 for UL Certified cable material. 02 is also flame retardant to IEC 60332-3 Cat A. Poly-Vinyl-Chloride (PVC) covered cables are not available. When ordering cables, it is recommended that the user supplies the details as shown in Table 1.

The maximum recommended I/O cable length is 15 m. Cables longer than this may be specified if necessary but may suffer from voltage drop, offset, crosstalk and noise and will present materials handling problems.

Internal cables are designed for cables where they are terminated in adjacent enclosures. If the cable needs to leave the enclosure environment, the external cable has more protection. Note that the 'external' cables are not armoured and are not suitable for truly external use and must still be treated with care. These cables will need protection when drawn through a cable route, and should also not be pulled by the connector(s). They should enter cabinets through transit/compression blocks and cannot be glanded.

1. I/O Companion Slot Cable Type TC-801

This type of cable, and the modules/FTAs it is used with, is shown in Figure 1 below.

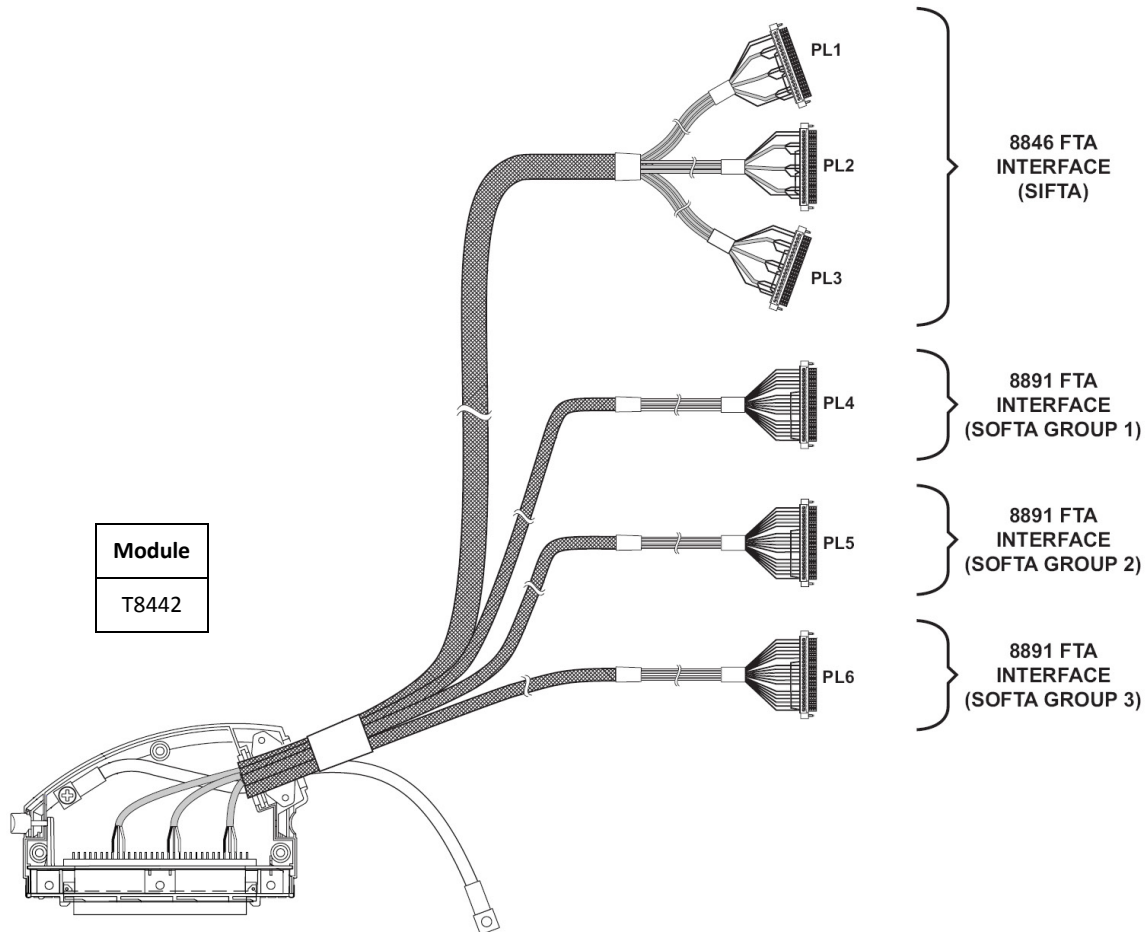


Figure 1 I/O Companion Slot Cable Type TC-801-02

This type of Trusted I/O Companion Slot Cable is designed for use with the T8442 Speed Monitor module and is required for connections to a T8846 Speed Input FTA and up to three T8891 Speed Output FTAs. Both the -02 and -03 versions of this cable are internal, low smoke zero halogen. There is no SmartSlot version of this cable.

The chassis end of the multi-core cable is fitted with a 96-way type 'C' connector housed in a double-width hood. The other ends of the cable are fitted with six 20-way screw-fit 3.5 mm pitch female header connectors; three to the T8846 and one to each T8891. The cable is only available with three T8891 tails in the arrangement shown in the figure above.

The cables are assembled from individual cores and screened twisted pairs and are shrouded in nylon Megamide sheathing. The ends of the sheathing are fitted with heat-shrink sleeving to help prevent fraying.

At the chassis end, a sheathed braid allows the connector hood to be wired to safety earth.