

6. I/O Companion Slot Cable Type TC-205

This type of cable, and the modules/field termination assemblies it is used with, is shown in Figure 5 below.

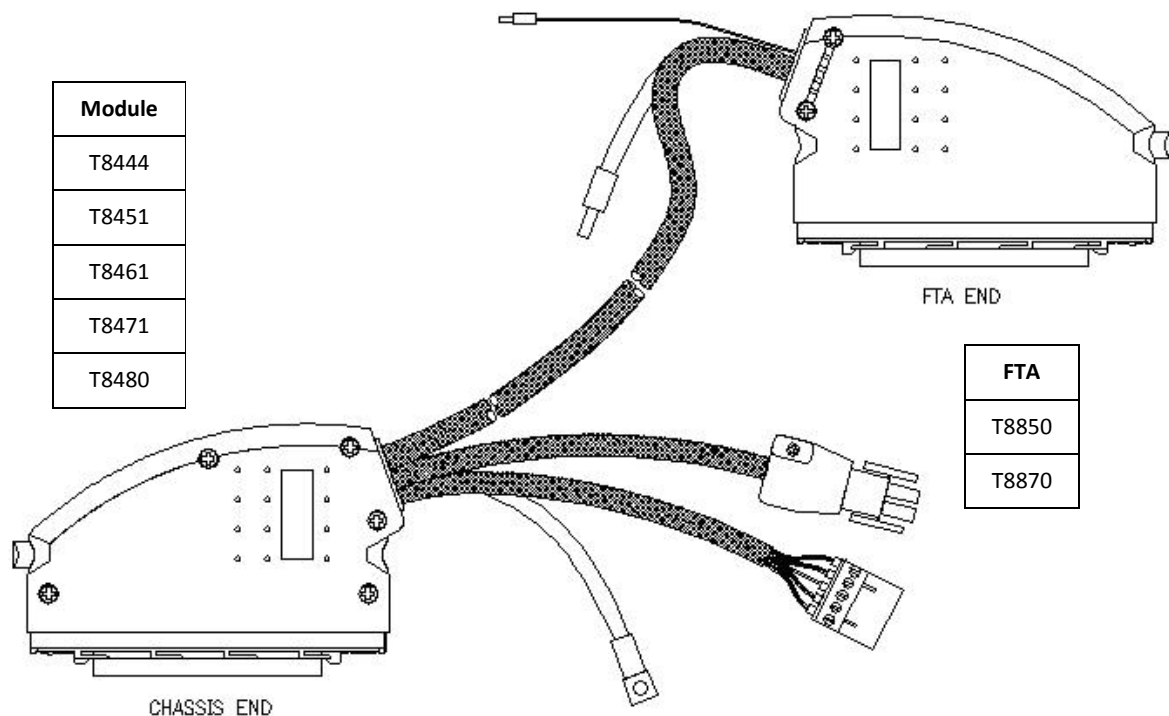


Figure 5 I/O Companion Slot Cable Type TC-205

This type of Trusted I/O Companion Slot Cable is designed for use with digital 24 V/120 Vdc or analogue output modules and is suitable for connecting output signals from the module to an internal FTA.

Three multi-core cables are used for this application. The chassis end of multi-core 1 is fitted with two 96-way type 'C' connectors housed in a double-width hood. The non-chassis end of multi-core 1 is fitted with a 96-way type 'R' connector housed in a single-width hood enabling connection to an FTA. The non-chassis end of multi-core 2 is fitted with a 5-way BLZF 3.5 series connector enabling the cable to be terminated at a T8290 Output Power Distribution Unit. This cable is used for field power return. The non-chassis end of multi-core 3 is fitted with a 6-way AMP plug used to connect power to the field from a T8290 or T8297 and is made up of five individual 2.5 mm wires contained within Rilgain sleeving.

The 0 V connection at the chassis end allows a module reference so that it can measure its output voltage, this must be connected to the field 0 Volts.

The FTA contains isolated power group field 0 Volts which connect to field 0 V supply. Commoning of the reference is obtained by a connection between this field supply and the T8290 Output Power Distribution Unit (TB1 pins 1 and 2).

8. I/O Companion Slot Cable Type TC-207

This type of cable, and the modules/field termination assemblies it is used with, is shown in Figure 7 below.

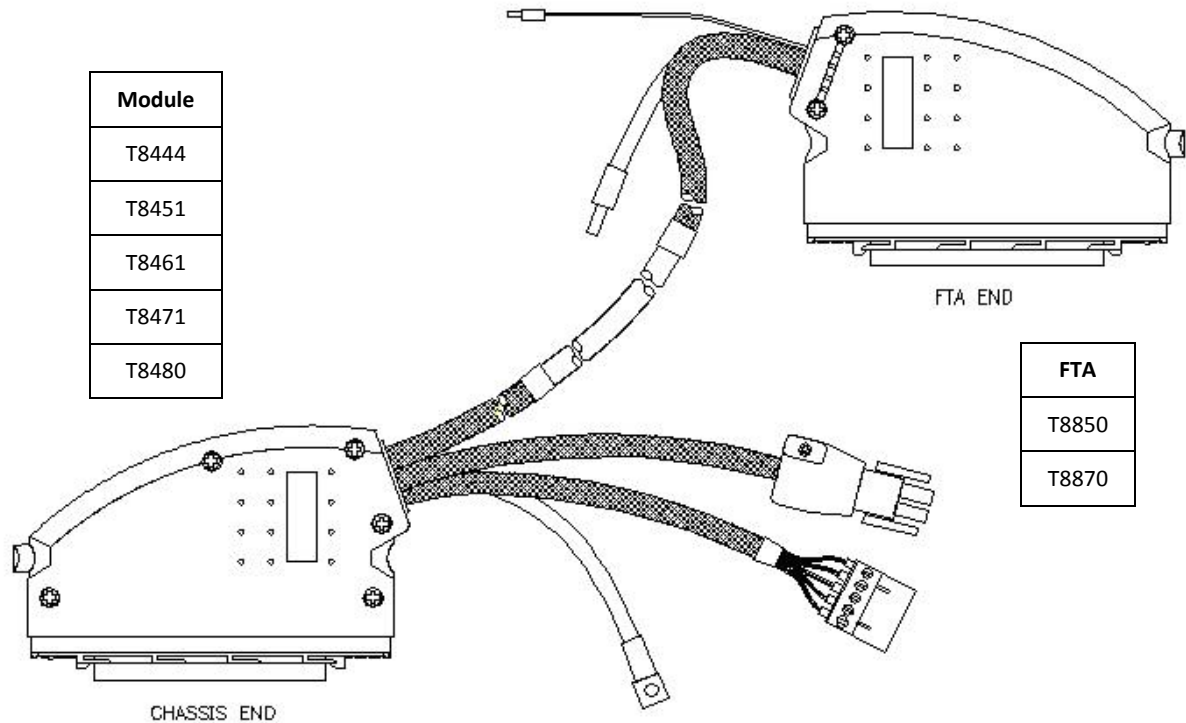


Figure 7 I/O Companion Slot Cable Type TC-207

This type of Trusted I/O Companion Slot Cable is designed for use with digital 24 V/120 Vdc or analogue output modules and is suitable for connecting output signals from the module to an external FTA.

Three multi-core cables are used for this application. The chassis end of multi-core 1 is fitted with two 96-way type 'C' connectors housed in a double-width hood. The non-chassis end of multi-core 1 is fitted with a 96-way type 'R' connector housed in a single-width hood enabling connection to an FTA. The non-chassis end of multi-core 2 is fitted with a 5-way BLZF 3.5 series connector enabling the cable to be terminated at a T8290 Output Power Distribution Unit. This cable is used for field power return. The non-chassis end of multi-core 3 is fitted with a 6-way AMP plug used to connect power to the field from a T8290 or T8297 and is made up of five individual 2.5 mm wires contained within Rilgain sleeving.

The 0 V connection at the chassis end allows a module reference so that it can measure its output voltage, this must be connected to the field 0 Volts.

14. I/O Companion Slot Cable Type TC-215

This type of cable, and the modules/field termination assemblies it is used with, is shown in Figure 13 below.

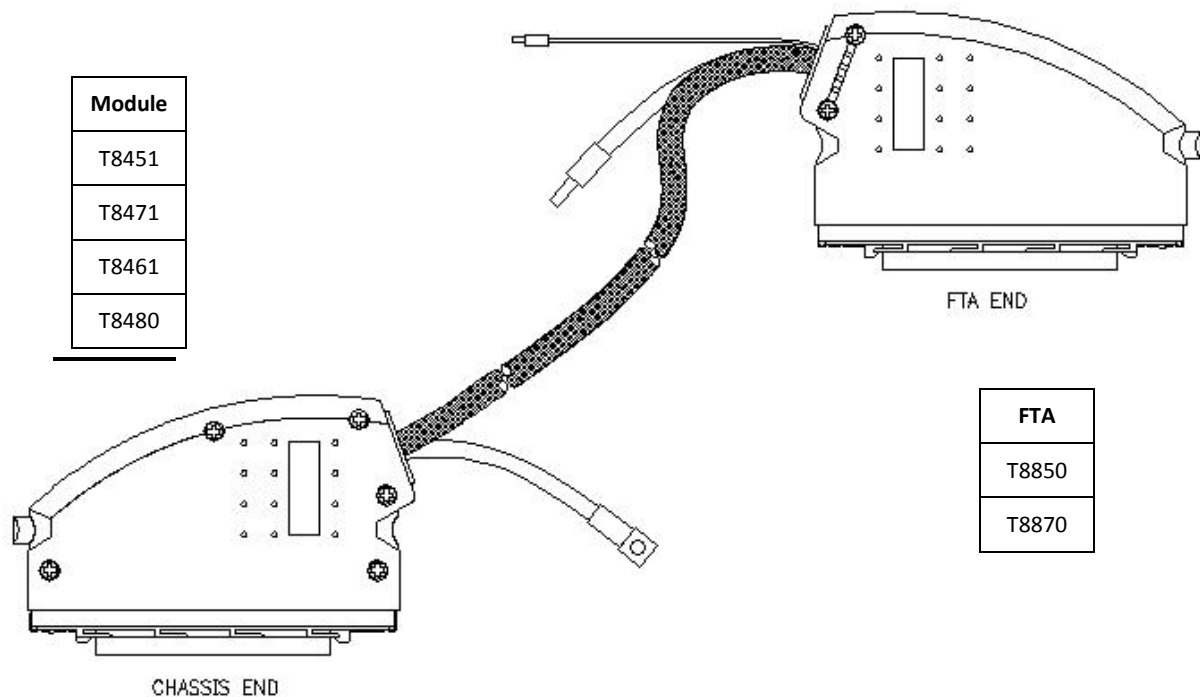


Figure 13 I/O Companion Slot Cable Type TC-215

This type of Trusted I/O Companion Slot Cable is designed for use with 24 V or 120 Vdc digital output modules and is suitable for connecting output signals from the module to an internal FTA. Power connections are integral with this type of cable.

The chassis end of the multi-core cable is fitted with two 96-way type 'C' connectors housed in a double-width hood. The other end of the cable is fitted with a 96-way type 'R' connector housed in a single-width hood enabling the cable to be connected to an FTA.

Using this cable, the field power is connected at the FTA, which has indicators for each power group which are voltage sensitive. For this reason, the T8850 FTA should be used with the T8451 and the T8870 with the T8471.

The 0 V connection at the FTA end allows a module reference so that it can measure its output voltage, this must be connected to the field 0 Volts.

The FTA contains isolated power group field 0 Volts which connect to field 0 V supply. Commoning of the reference is obtained by a connection to this field supply.