

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.

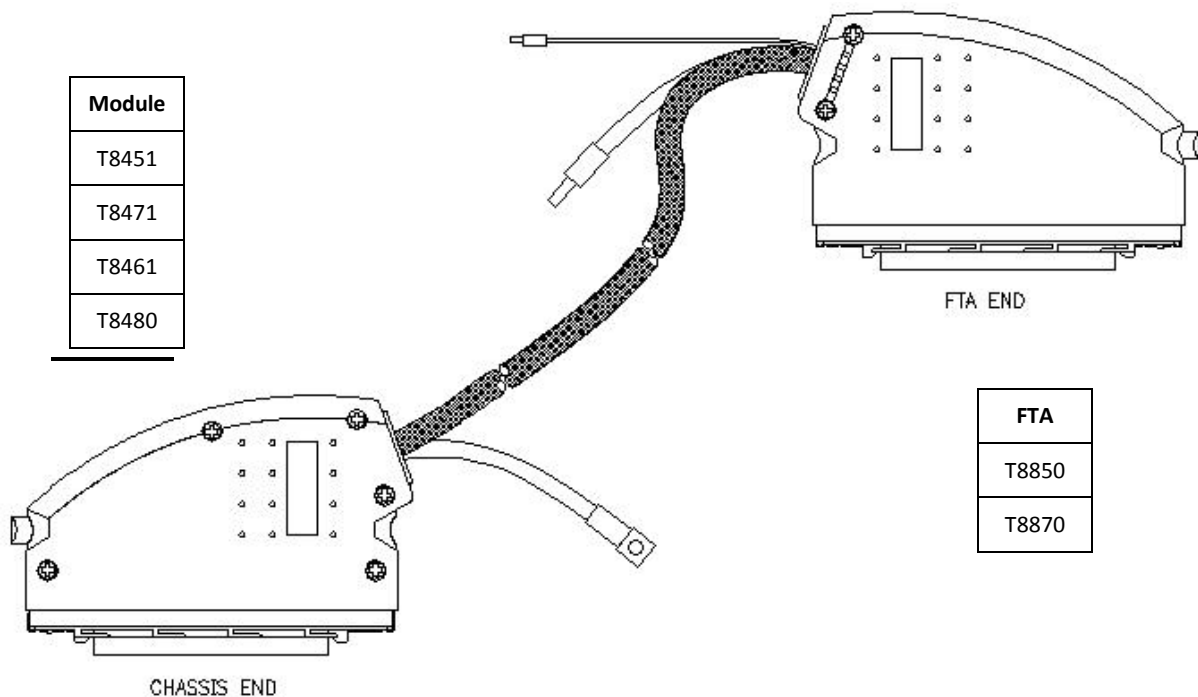


Figure 13 I/O Companion Slot Cable Type TC-215

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.

The multi-core cable is stripped back 1.5 m at both ends, then shrouded in nylon Rilgain sheathing. The ends of the sheathing are heated or fitted with over sleeving to help prevent fraying.

At both the chassis and remote end, a sheathed braid allows the connector hood to be wired to safety earth. At the remote end, the multi-core screen drain is wired to a green wire to allow connection to screen earth.