

Installation and testing of Type IV cables

Test upon delivery

Type IV cables arrive from the assembler confectioned in double length and with two PP3-end connectors mounted (labeled CM - Cable Male). First the continuity, mapping, insulation and HV shall be tested by plugging the cable into the Cable Test Board (CTB), a functional copy of DPP1 with the PP3 connector facing the Type IV cable (labeled BF – Board Female). As the test box features the PS connector (BM – Board Male) an adapter with two CF connectors is needed to mate the other end of the Type IV cable to the test box.

Test after installation

After the test the Type IV cable is cut in half and pulled from the PP3 location towards PS in US(A)15. A CF connector is mounted in-situ at the PS side. At PP3 the CM connector is plugged into CTB. The test box could in principle be directly plugged into at the PS side. However, to prevent excessive wear of the test box BM connector, usage of a CF – CM adaptor is foreseen to which the Type IV cables are mated.

Connector glossary:

BM – Board Male: connector on the PS backplane and PP3 side facing the Type III cable; used in the test box

BF – Board Female: connector on PP3 facing the Type IV cable; used on CTB

CM – Cable Male: connector on Type IV cable at PS end and Type III cable at PP3 end; used on test box adapter for final Type IV cable test

CF – Cable Female: connector on final Type IV cable at PP3 end and on both ends of delivered double-length Type IV cables; used on test box adapter for delivered Type IV cable test

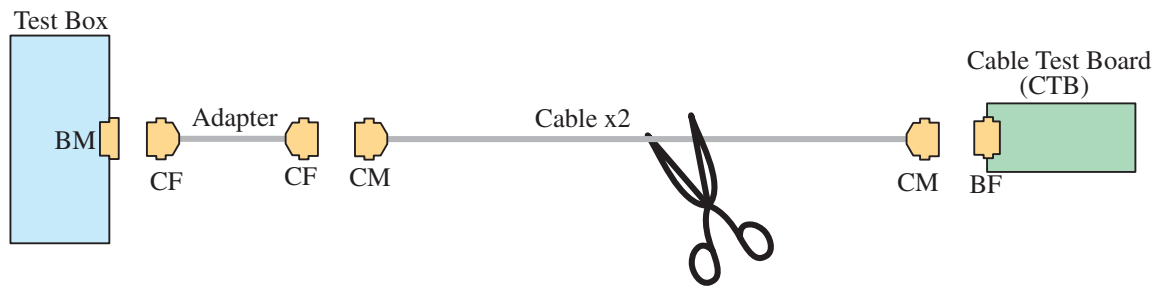


Fig.6 : Cable test, double length

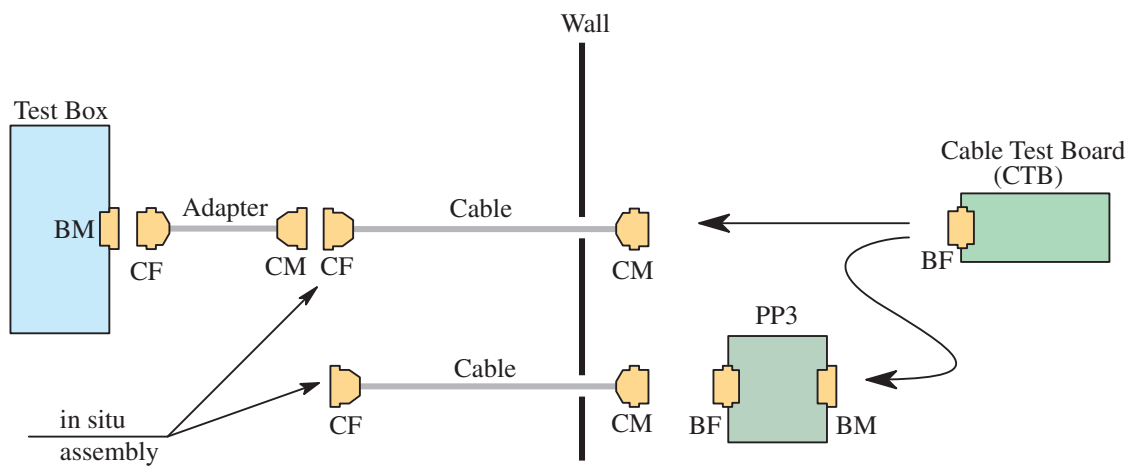


Fig.7 : Cable test, normal length, + PP3