



SPECIFICATION FOR PC AND APC CONNECTORS ON SINGLE MODE PATCHCORDS

The various PC and APC connectors as described in this specification shall be terminated to tight buffered single mode optical fibre, ruggedized single mode optical fibre (1,6mm–3mm) as per relevant ordering description. Fibre G652, G657A1 & G657A2

The various optical fibre connectors shall at least include the following connectors as a minimum requirement: FC/PC, FC/APC, SCPC, SCAPC, LC/PC, LC/APC



Optical Performance Characteristics

The various optical connectors are required to interconnect optical fibre systems and optical fibre cables in accordance with the requirement specified below.

Insertion loss

- a. The insertion loss for PC and APC throughout the range 1260 – 1625 nm shall not be greater than 0.4 dB (e.g. 0.41 dB rejected and 0.4, 0.39, 0.38, dB acceptable) for optimised connectors and shall not be greater than 0,1 dB (e.g. 0.11 dB rejected and 0.1, 0.09, 0.08, dB acceptable) for un-optimised connectors.
- b. Insertion loss is tested @ 1310nm and 1550nm, 1625nm is also available on request.

Return loss

- a. The return loss throughout the range 1260 – 1625 nm shall be greater than or equal to 45 dB (e.g. 44 dB rejected and 45, 46, 47,dB acceptable) for PC connectors and 65 dB (e.g. 64 dB rejected and 65, 66, 67,dB acceptable) for APC connectors.