

# Optical connections within the POP

## REANNZ Customer (Member) Connecting Direct Via REANNZ ISP OFDF

### Recommendations / Guidelines

This method of connecting (via Fibre) "Direct" to the REANNZ ISP OFDF is only an option when the Members equipment is located in the same room as the REANNZ equipment.

No connection direct to the REANNZ switching equipment is permitted, all connections must be via the REANNZ ISP OFDF.

**Note:** Should TelstraClear be tasked by the Member to provide this fibre connection different "Direct Connection" rules may apply, as per TelstraClear Internal guidelines.

Connection will be made by a Duplex Zip-Cord Single-mode fibre patch cord, appropriately labelled at both ends with correct style / gender connectors at each end.

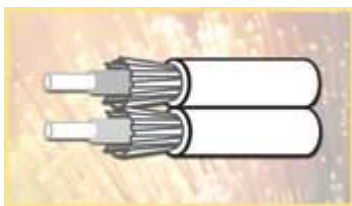
The below table specifications must be met due to requirements of the existing REANNZ ISP OFDF's, these requirements include (but are not limited to):

- Restrictions on overall patch cord diameter
- Bend radius
- Over congestion of OFDFs

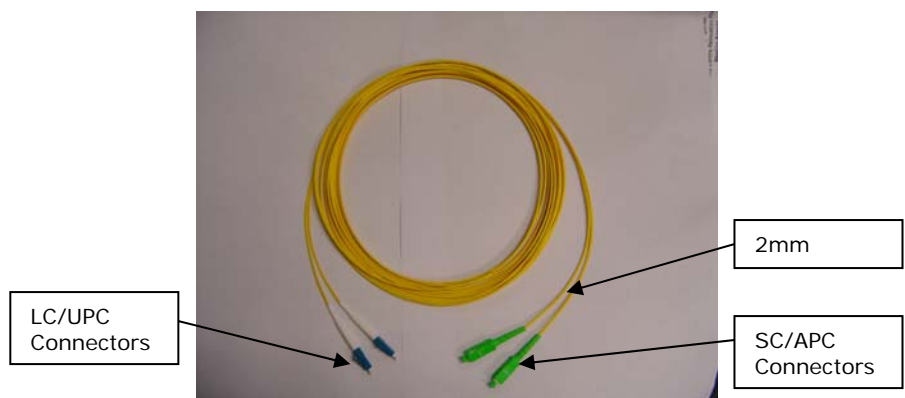
Specifications required for "Duplex Single-mode fibre patch cord":

<b>Connector Type at REANNZ end (REANNZ OFDF)</b>	Angled SC (Also known as SC/APC or SCA or ASC)
<b>Connector Type at Customer (Member) end</b>	Equipment dependant, Customer to ascertain
<b>Type / Style of fibre patch cord make-up</b>	Duplex Zip-Cord Style
<b>Single-mode core size</b>	9/125 Micron
<b>Maximum Jacket diameter of fibre patch cord</b>	2mm
<b>Length of fibre patch cord</b>	As required

**Duplex Zip Cord:** Duplex zip cord cables are two fibres, tight-buffered (coated with a 900 micron buffer over the primary buffer coating) with Kevlar (aramid fibre) strength members and jacketed for indoor use. The jacket required is 2mm in diameter. Zip-cord is simply the way these patch cords are joined with a thin web.



**Zip Cord Patch Cable**



**7meter Zip-Cord Patch Cord**

**As Example, an order for a suitable lead could be worded:**

1 x 10 meter, 9/125micron Single-mode Duplex Zip-Cord Patch Cord, 2mm Jacket, LC/UPC – SC/APC.

**Sample of Companies that can supply these types of leads:**

Connector Systems - Head Office Phone: +64 9 580 2800

Tyco - Head Office Phone: +64 9 634 4580

ATG - Head Office Phone: +64 9 476 0364

DFD - Head Office Phone: +64 9 625 2017

WaveCom - Head Office Phone: +64 9 271 6712