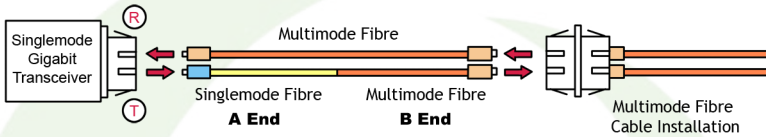
Optimal cable services

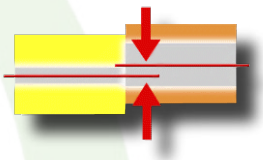
Mode Conditioning Patchcords

Mode Conditioning Patchcords

Mode Conditioning patchcords are used for Gigabit Ethernet applications where Gigabit 1000 Base-LX routers and switches are installed into existing multimode cable plants.

The need for Mode Conditioning patchcords is due to the single-mode launch nature of the -LX or long-wave (1300nm) transceiver modules used for Gigabit Ethernet. These modules have to operate for both singlemode and multimode fibers. Launching a singlemode laser into the center of a multimode fiber can cause multiple signals to be generated that confuse the receiver at the other end of the fiber. These multiple signals, caused by Differential Mode Delay (DMD) effects, severely limit the cable distance lengths for operating Gigabit Ethernet. A mode conditioning patchcord eliminates these multiple signals by allowing the single-mode launch to be offset away from the center of a multimode fibre. This offset point creates a launch that is similar to typical multimode LED launches.





OPT - MCL - Conn A Conn B Fibre - Length

Connector A

ST -	ST
SC -	SC
SC/APC -	SA
LC -	LC
LC/APC -	LA
FC -	FC

Length

Length in Metres

Connector B

ST -	ST
SC -	SC
SC/APC -	SA
LC -	LC
LC/APC -	LA
FC -	FC

Fibre

62.5/125um - OM1
50/125um - OM3

Note:
Connector A connects to the Transciever.
This end consists of :
1 x SM and 1 x MM fibres

Optimal Cable Services Pty. Ltd.
100 Olympia Street
Tottenham, Victoria, 3012
Ph: 03-9316-8300 / Fax: 03-9314-1722

Email: sales@optimal.com.au
Web: www.optimal.com.au

Cable & Connectivity Sales

Vic : 0430 494 022 - Murray Meltzer
: 0412 361 281 - Paul Cross
Qld : 0407 630 429 - Ian Lee
SA : 0412 361 281 - Paul Cross
Tas : 0430 494 022 - Murray Meltzer

NSW : 0400 122 738 - Mike Cotie
: 0400 122 670 - Bruce Christie
: 0422 651 321 - Martin Prendergast
WA : 0407 630 429 - Ian Lee
NZ : 021 496 919 - Jim Donachie