

## Wavelength Division Multiplexers

### TELECOM OUTSIDE PLANT

FIST is Tyco Electronics' Fiber Infrastructure System Technology. At the heart of the system lies the unique sub-assembly concept. Optical component array sub-assemblies are factory installed in a closed black tray, and the incoming and outgoing fibres are stored on separate trays for single circuit management. Splices for connection to the network can be stored on those trays.

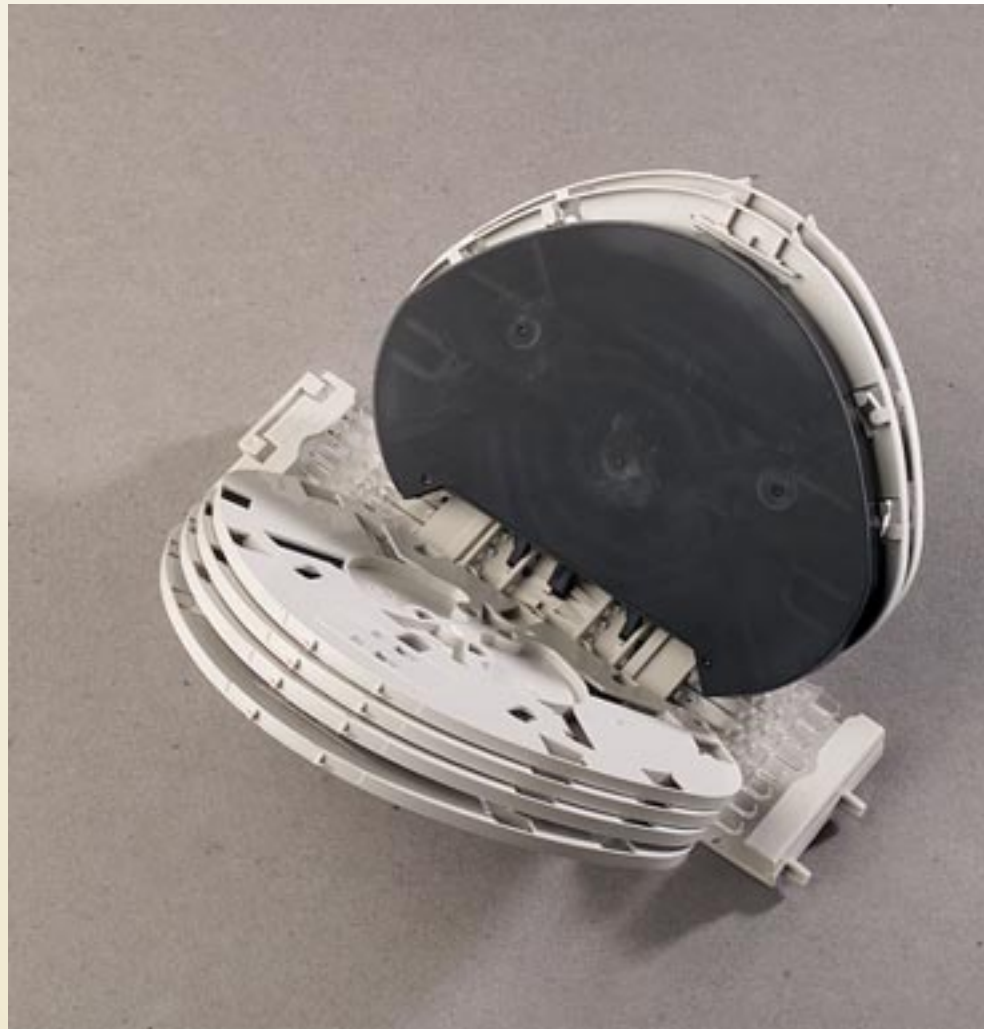
The assemblies have a base plate that can be clipped onto the UMS (Universal Mounting system) profiles which are built into the various FIST network products, e.g. splicing shelves (FIST-GSS2), patching shelves (FIST-GMS2), closures (FIST-GCO2, FIST-GCOG2) and boxes (FIST-GB2).

Provision for fiber, device and cable element identification is integrated in the design either by labelling or by using colored fibers.

### Multiple Component Configurations

Wavelength Division Multiplexers separate two wavelength ranges from a common fiber, usually being 1310nm and 1550nm, or allow for the use of a single fiber for simultaneous transmission of two signals of different wavelength. These components are available in different grades, based on fused beconical tapering or thin film filter technology. The most important difference is the isolation between channels, which is typically around 15 dB for a standard fbt-device and minimum 30 dB for a filter device.

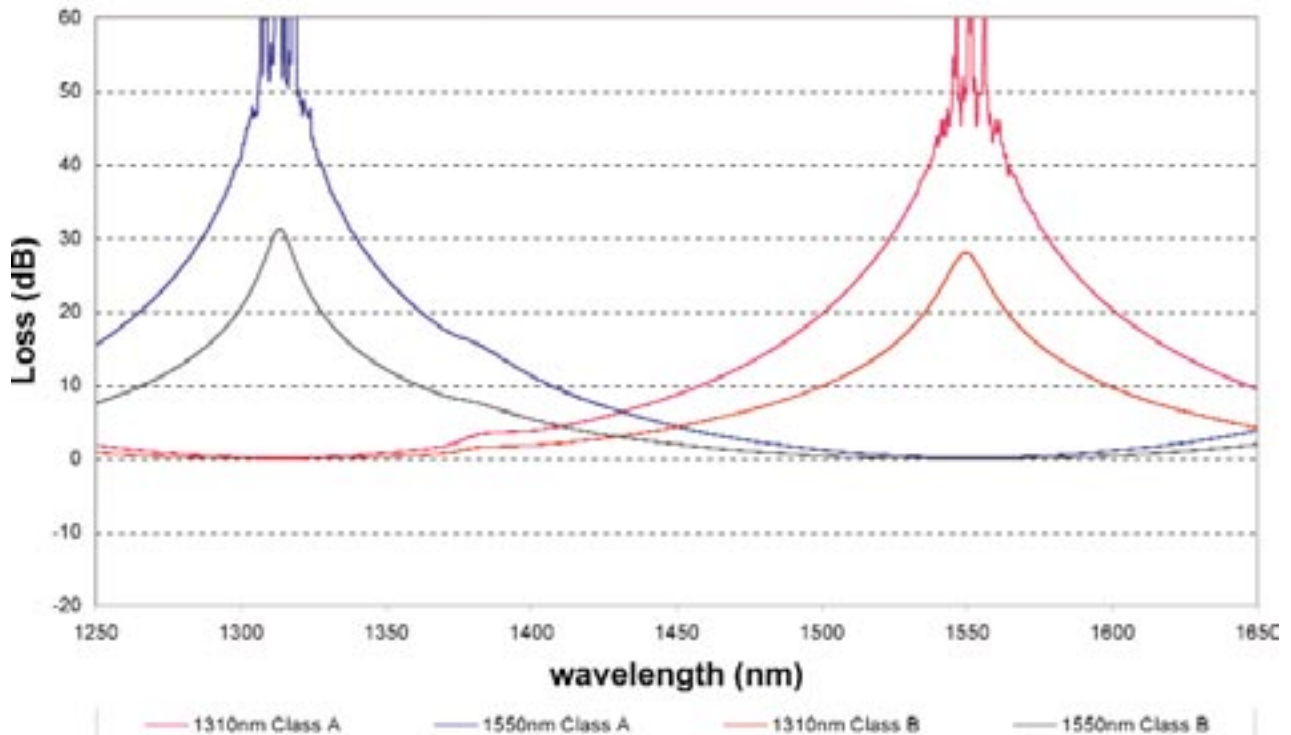
Wavelength (de)multiplexing devices can be used in circuits together with splitters. The lay-out of the factory mounted circuit can be customized.



FIST-WDM

# FIST-WDM

Spectral Scan from Concatenated High Isolation fused single Mode  
WDM (1310/1550nm)  
WDM Class A- WDM class B



## Preferably to use in controlled environments

The filter technology based WDM components are known to deteriorate in humid conditions and are therefore strongly recommended in combination with the Tyco-Electronics hermetic sealing technology when used in uncontrolled environments. Due to the limited size of the small black FIST component cassette, component arrays can only include a limited number of devices.

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