

## 3x3, 1x3, 2x2, 1x2, Standard Couplers

Couplers can be used to split light from one or more fibers onto two or three fibers or to combine light from two or three fibers onto one or more fibers. Depending on the transmission system the light can be at one or many wavelengths in the range 1250nm to 1600nm. For different systems couplers of the following types are available.



### SINGLE WAVELENGTH COUPLER

Insertion Loss specified for operation at a single wavelength in the range from 1250nm to 1600nm.

### WAVELENGTH FLATTENED COUPLER

Designed to give uniform insertion loss over a broad wavelength band around a centre wavelength of 1310nm or 1550nm.

### DUAL WAVELENGTH COUPLER

Designed to give a uniform insertion loss over the complete wavelength band from 1260nm to 1600nm.

### APPLICATIONS

- Long Haul Telecommunications
- Bi-directional Communications
- FTIL LAN CATV PONs
- Fiber Sensors
- Fiber Test and Measurement

### FEATURES

- Low Insertion Loss
- Excellent Environmental Stability
- Available Sleeved and Connectorised if required
- Compact Design

### SPECIFICATIONS

Parameter	Specification
Configuration	3x3, 1x3, 2x2, 1x2
Fiber Type	9/125/250 Singlemode
Fiber pigtail length	>800m
Package Size	63mm x 3mm diameter Miniature 45mm x 3mm diameter
Directivity	< -65dB

### ORDERING INFORMATION

STD - AA - B - CC - DD - E

#### Coupler Type (A)

- W3 = Single Wavelength 1310nm
- W5 = Single Wavelength 1550nm
- F3 = Wavelength Flat 1310nm
- F5 = Wavelength Flat 1550nm
- W3 = Dual Wavelength

#### Grade (B)

- A = Top
- B = Economy

#### Port Configuration (DD)

- 12 = 1 X 2
- 22 = 2 X 2
- 13 = 1 X 3
- 33 = 3 X 3

#### Coupling Ratio (CC)

1% to 50%

#### Package (EE)

- S = Standard (63mm)
- M Miniature (45mm)
- U = Ultra Miniature (35mm)