

3M

PLC Splitters

3M™ PLC Splitters are fully passive optical devices that exhibit uniform signal splitting for optical networks. These silica chip based devices are packaged in small form factor housings to offer compact management into 3M modules and splice trays. They are available in both pre-connectorized and ready for splice-in forms.

APPLICATIONS:

Supports all FTTH network architectures:

- BPON, GPON, GE-PON, P2P
- CATV
- Data communications
- Indoor or outdoor environment use

OPERATING CONDITIONS:

Wavelength: 1260 to 1360 nm & 1450 to 1625 nm

Maximum Input Power: 17 dBm @ 1550nm

Temperature Range: -40°C to 85°C

Humidity Range: 5% to 85% RH



FEATURES:

Low insertion loss

High uniformity

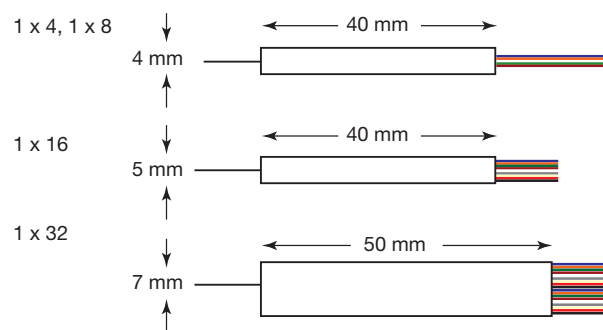
Telecordia GR-1209 & GR-1221 compliant

Standard input: 250µm singlemode fiber

Standard output: 250µm ribbon fiber

Available in trays or modules compatible with 3M fiber optic closure systems.

DIMENSIONS



(depth of all packages is 4 mm)

Specifications:

Parameter	1x4	1x8	1x16	1x32
Insertion loss (dB)	7.2	10.5	13.8	17.1
Uniformity (dB)	≤ 0.8	≤ 1.0	≤ 1.5	≤ 2.0
PDL (dB)	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
Return loss (dB)	≥ 55	≥ 55	≥ 55	≥ 55
Directivity (dB)	≥ 55	≥ 55	≥ 55	≥ 55

Configuration Guide

Add for fanout:

3M	PLC	xxx	xx	xx	xx	x	x	xxxx
Splitter Type	Ports	Fiber Type (Input/Output)	Connectors (Input/ Output)	Pigtail Length** (Input/Output)	Grade	Tray or Cassette	Length (L1)/Breakout (L2)	Ribbon
PLC = Planar Light Circuit	104 = 1 x 4	2 = 250 μm	0 = none	10 = 1.0 meter	S = standard	0 = none	0505 = 0.5 m/0.5 m	
	108 = 1 x 8	R = 250 μm ribbon	1 = SC UPC	15 = 1.5 meter			1010 = 1.0 m/1.0 m	
	116 = 1 x 16	J = 900 μm jacketed*	2 = SC APC	20 = 2.0 meter				
	132 = 1 x 32							
	216 = 2 x 16							
	232 = 2 x 32							

*900 μm requires fanout

** Inputs and Outputs equal length



3M is a trademark of 3M Company.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of 12 months from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether indirect, special, incidental or consequential regardless of the legal theory asserted.



Communication Markets Division
3M Telecommunications

6801 River Place Blvd.
Austin, TX 78726-9000
800/426 8688

Fax 800/626 0329

www.3MTelecommunications.com

Please recycle

Litho in USA.
© 3M 2007 80-6113-1574-0