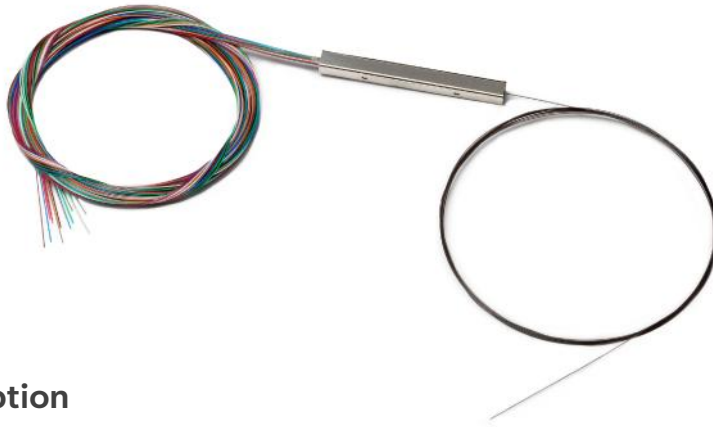


Small-Form PLC Optical Splitters



Description

Montclair offers a wide selection of high-quality Small-Form PLC optical splitters for a variety of broadband network applications at a low per port cost. These passive components provide superior and reliable performance over a wide operating wavelength range (1260 ~ 1650nm) and temperature range (-40 to +85 °C) to address high-bandwidth and environmental network demands. Small-form PLC splitters are available connectorized and for splicing in 250um bare and ribbon fiber, 900um fiber, and 250um to 900um fiber.

Features

-)] Low insertion loss & PDL
-)] High return loss & port-to-port uniformity
-)] Wide operating wavelength 1260 ~ 1650nm
-)] Wide operating temperature -40 to +85 °C
-)] Excellent environmental & mechanical stability
-)] Premium grade components & connectivity
-)] Telcordia GR-1221/GR-1209 & GR-326 qualified
-)] RoHS compliant

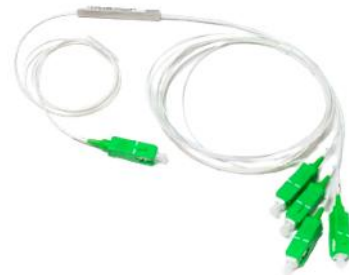
Applications

-)] FTTH PON networks
-)] Telecom
-)] Cable
-)] Local & Wide Area Networks

3 Small-Form Fiber Configuration Types



250um ribbon and non-ribbon output fiber cable



900um output fiber cable



250um + 900um fan-out output fiber cable

Small-Form PLC Optical Splitters

Specifications

1xN Parameters		Value										
Configuration		1x2	1x3	1x4	1x6	1x8	1x12	1x16	1x24	1x32	1x64	1x128
Operating wavelength nm		1260 ~ 1650										
Insertion loss dB	typ.	3.6	6.0	7.0	9.2	10.3	12.2	13.6	15.8	16.6	20.1	24.5
	max.	4.3	6.2	7.4	9.5	10.7	12.5	13.9	16.0	17.2	21.5	25.5
Uniformity dB	max.	0.5	0.6	0.8	0.8	0.8	1.2	1.4	1.5	1.5	2.0	2.6
PDL dB	max.	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
TDL dB	max.	0.5										
Return loss dB		55 / 50										
Directivity dB		55										
Operating / Storage Temp. °C		-40 to +85										
Fiber type		Singlemode Bend insensitive G657A										

Note: Above values do not include connectors

Steel rectangular housing dimensions		Value										
Configuration	(HxWxL)	1x2	1x3	1x4	1x6	1x8	1x12	1x16	1x24	1x32	1x64	1x128
250um ribbon	mm	4x4x40	NA	4x4x40	NA	4x4.5x45	4x4.5x45	4x4.5x45	4x7x50	4x7x50	4x12x60	inquire
900 loose tube	mm	4x4.5x45	4x4.5x45	4x4.5x45	4x7x60	4x7x60	4x12x60	4x12x60	4x12x80	6x20x80	6x20x100	inquire
250um+900um	mm	4x4x40	NA	4x4x40	NA	4x4.5x45	4x4.5x45	4x4.5x45	4x7x50	4x7x50	4x12x60	inquire

2xN Parameters		Value							
Configuration		2x2	2x4	2x8	2x16	2x32	2x64	2x128	
Operating wavelength nm		1260 ~ 1650							
Insertion loss dB	typ.	4.2	7.2	10.6	13.8	17.0	20.5	24.8	
	max.	4.5	7.7	11.0	14.8	17.9	21.5	25.8	
Uniformity dB	max.	0.8	1.0	1.2	1.5	1.8	2.5	3.0	
PDL dB	max.	0.2	0.3	0.3	0.3	0.3	0.5	1.0	
TDL dB	max.	0.5							
Return loss dB		55 / 50							
Directivity dB		55							
Operating / Storage Temp. °C		-40 to +85							
Fiber type		Singlemode Bend insensitive G657A							

Note: Above values do not include connectors

Steel rectangular housing dimensions		Value						
Configuration	(HxWxL)	2x2	2x4	2x8	2x16	2x32	2x64	2x128
250um ribbon	mm	4x4x40	4x4.5x45	4x4.5x45	4x7x60	4x7x65	4x12x60	inquire
900 loose tube	mm	4x4.5x45	4x7x60	4x7x60	4x12x80	6x20x90	6x20x100	inquire
250um+900um	mm	4x4x40	4x4.5x45	4x4.5x45	4x7x60	4x7x60	4x12x60	inquire

Small-Form PLC Optical Splitters

Ordering information

M - T D - P - 1 - 6 0 - S - 2 - 3 / 4 - 5

1. Port configuration:		2. Connector type:		3. Fiber length input (m):	4. Fiber length output (m):
01x02	01x16	AFC	FC/APC	0.5	0.5
01x03	01x24	FCU	FC/UPC	1	1
01x04	01x32	ALC	LC/APC	1.5	1.5
01x06	01x64	LCU	LC/UPC	2	2
01x08	01x128	ASC	SC/APC	2.5	2.5
01x12		SCU	SC/UPC	3	3
02x02	02x32	PL	Pigtail		
02x04	02x64				
02x08	02x128				

5. Fiber type:

R	900um tight-buffer fiber input 250um ribbon fiber output
2/R	250um fiber input 250um ribbon fiber output
9	900um tight-buffer fiber input 900um loose-tube fiber output
L	900um tight-buffer fiber input 250um ribbon fiber output to 900um loose-tube fanout
9/2	900um tight-buffer fiber input 250um non-ribbon fiber output
2	250um fiber input 250um non-ribbon fiber output

NOTE:

1. All fibers follow TIA-598 color-code standard
2. 900um fiber input is tight-buffer