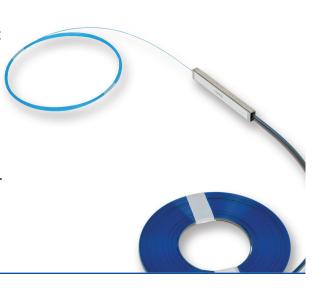
Fiber PLC Splitter



Overview

Fibre optic splitter is a network component that distributes incoming light (one or two input fibers) in equal parts towards multiple output fibers (2-64). Splitters are available with 250 µm bare fibers, 900µm buffered fibers and 2.0 mm cords. Input and output cords and fibers can have various lengths and can be terminated by optical connectors. KINGTON fibre optic splitters can be integrated inside several products and/or applications in combination with keen fibre or cable management systems.

All products meet Telcordia 1209 and 1221 reliability requirements and are certified by TLC for network deployment.



Features

- Wide Operating wavelength From 1260-1650nm ±40nm
- Low excess loss & High performance
- Good uniformity & Low PDL
- Small package size
- Various connector type & Package Size available
- Standard connector type SC/APC-80, SC/UPC
- Must have a cover to prevent dirt
- Specifications for connectors
- Insertion loss: ≤ 0.30dB
- Reflection loss: 60dB for SC/APC-80 , 50dB for SC/UPC
- Loss stability: ≤ 0.1dB after 500 connection cycles
- Working temperature: from -100C to +650C
- Humidity ≤95%RH
- Mechanical, environmental and connection requirements according to ITU-T L.36/2008
- Vibration resistance Vibration (IEC 61300-2-1): compliant with ITU-T L.36/2008 (clause 9.2.1)
- Strength of the coupling mechanism (IEC 61300-2-6): comply with ITU-T L.36/2008 (section 9.2.2)
- Fiber/cable retention (IEC 61300-2-4): compliant with ITU-T L.36/2008 (section 9.2.3.1)
- Change of temperature (IEC 61300-2-22): comply with ITU-T L.36/2008 (clause 9.2.6.4)
- Environmental tests (according to ITU-T L51/2012 Passive node elements for fiber optic networks General principles and definitions for characterization and performance evaluation, Table A.1/L.51 Summary of typical parameters for the basic environmental classes and ITU-T L.52/2003 Deployment of Passive Optical Networks (PON), Table I.3/L.52 Environmental and mechanical performance)
- Vibration resistance test according to IEC 61300-2-1
- Test for resistance to temperature changes (Temperature cycling) according to IEC 61300-2-22, temperature range from -10oC to +65oC
- Immersion in water (water immersion): temperature 35°C \div 43°C; pH 5.5 for 5 days. Loss change <0.2dB
- \bullet Salt spray: spray 5% NaCl water, then maintain the temperature at 43oC \div 65oC for 5 days. Loss change <0.2dB
- Working environment and conditions: non-wavelength selective branching optocoupler working in normal environment according to IEC 61753/ITU-T G.671 (non-wavelength selective branching devices for Category U Uncontrolled environment) (or equivalent)

Fiber PLC Splitter



Specifications

Parameters	1x2 Port	1x4 Port	1x8 Port	1x16 Port	1x32 Port	1x64 Port			
Operating Wavelength(nm)		1260 ~ 1650 ±40nm							
Fiber Type	G652D/G657A1/G657A2								
Insertion Loss(dB)	3.8	7.1	10.2	13.5	16.8	20.5			
Uniformity(dB)	0.4	0.6	0.8	1.2	1.5	2			
Return Loss(dB)	55	55	55	55	55	55			
PDL(dB)	0.2	0.2	0.2 0.3		0.3	0.35			
Directivity (dB)	55	55	55	55 55		55			
Temperature Stability(-40 ~ 85 °C)(dB)	0.5	0.5	0.5	0.5	0.5	0.5			
Operating Temperature ($^{\circ}$)	-25 ~ 70								
Storage Temperature (℃)	-25 ~ 70								
1ini Module Dimension (LxWxH)	60x7x4	60x7x4	60x7x4	60x12x4	80x20x6	100x40x6			
ABS Box Dimension (LxWxH)	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	140x115x1			
Bare Fiber Dimension (LxWxH)	40x4x4	40x4x4	40x4x4	50x7x4	50x7x4	60x12x4			

Specifications

Parameters	2x2 Port	2x4 Port	2x8 Port	2x16 Port	2x32 Port	2x64 Port			
Operating Wavelength(nm)			1260 ~ 1650 ±40nm						
Fiber Type	G652D/G657A1/G657A2								
Insertion Loss(dB)	4.1	7.4	10.8	14.3	17.3	21			
Uniformity(dB)	1	1.5	1.5	2	2	2.5			
Return Loss(dB)	55	55	55	55	55	55			
PDL(dB)	0.3	0.3	0.3	0.3 0.3		0.5			
Directivity (dB)	55	55	55	55 55		55			
Temperature Stability(-40 ~ 85 °C)(dB)	0.5	0.5	0.5	0.5	0.5	0.5			
Operating Temperature (℃)	-25 ~ 70								
Storage Temperature (℃)	-25 ~ 70								
1ini Module Dimension (LxWxH)	60x7x4	60x7x4	60x7x4	60x12x4	80x20x6	100x40x6			
ABS Box Dimension (LxWxH)	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	140x115x1			
Bare Fiber Dimension (LxWxH)	40x4x4	40x4x4	40x4x4	50x7x4	50x7x4	60x12x4			

Note: Add an additional 0.3dB loss per connector.

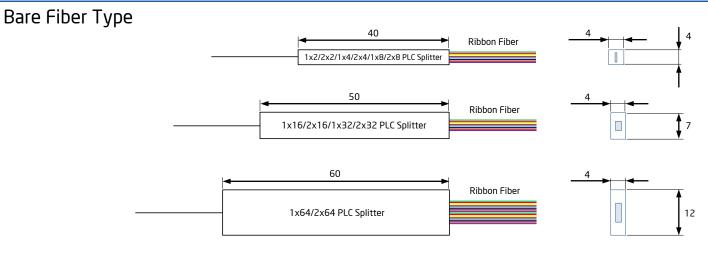
Applications

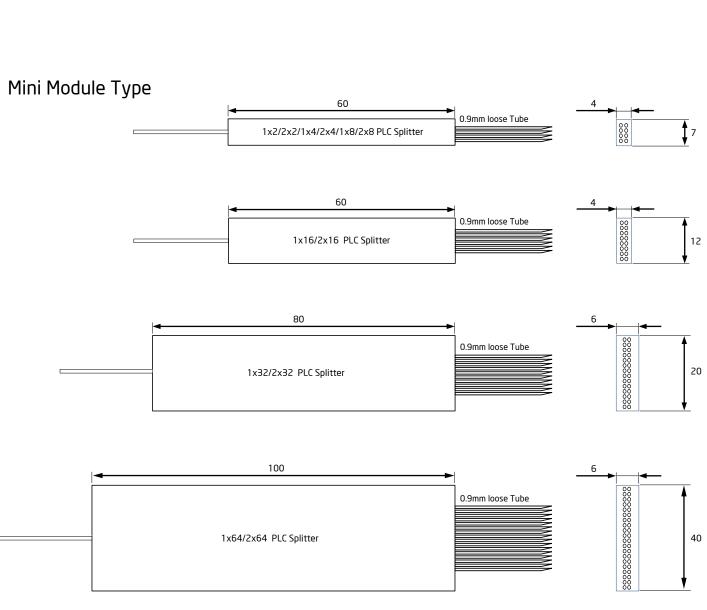
- Telecommunications networks
- CATV system
- Optical equipment
- Fiber optic sensors
- FTTH and FTTx

Fiber PLC Splitter



Product Diagram



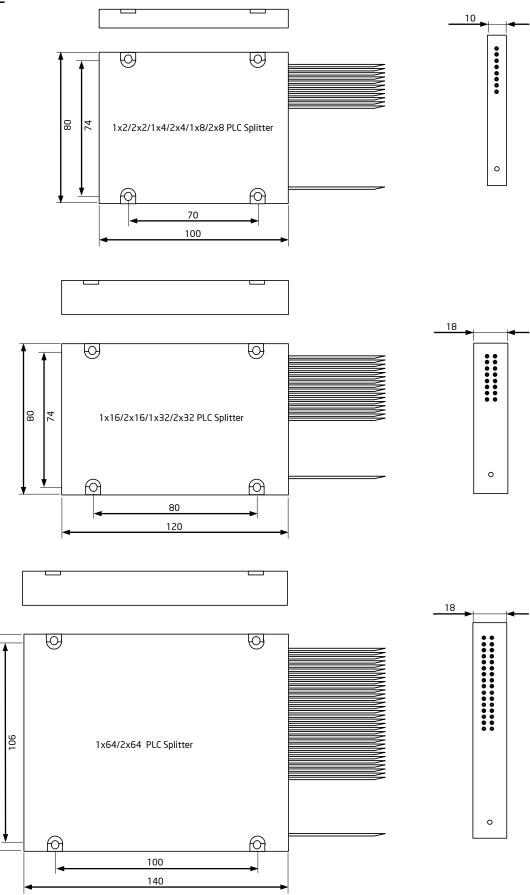


Fiber PLC Splitter



Product Diagram

ABS Box Type

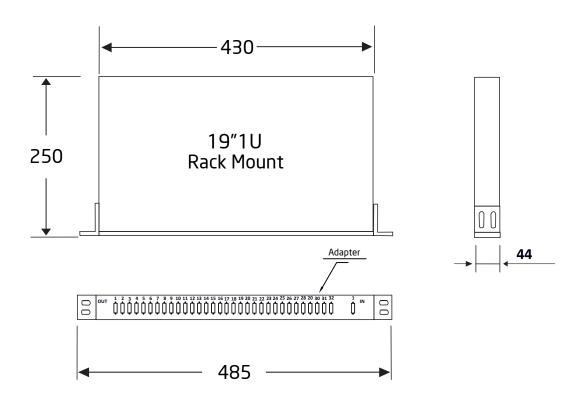


Fiber PLC Splitter

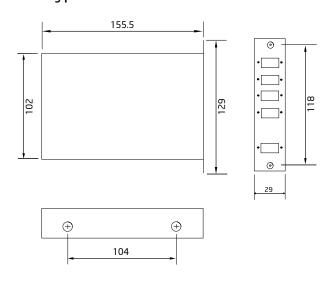


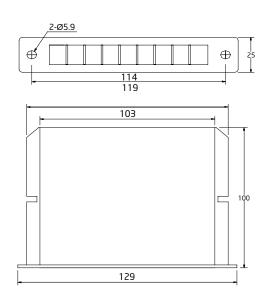
Product Diagram

19"1U Rack

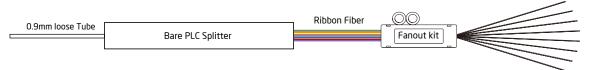


LGX Box Type





Fan-Out Type



Fiber PLC Splitter



Ordering Information

Orde	ordering information										
1	2 - 3	- 4	- 5	_ [6	- 7		- 8	_ 9	- 10	
1	Product model						6	Input fiber le	ngth		
PLS	PLC splitter						05	0.5m			
							10	1.0m			
2	Port type						15	1.5m			
102	1x2						20	2.0m			
104	1x4						30	3.0m			
108	1x8										
116	1x16						7	Input connect	tor		
132	1x32						SU	SC/UPC			
164	1x64						SA	SC/APC			
202	2x2							SC/APC step t	ferrule		
204	2x4						LU	LC/UPC			
208	2x8							LC/APC			
216	2x16							FC/UPC			
232	2x32						FA_	FC/APC			
264	2x64						FAT	FC/APC step			
							00	No Connector	r		
3	Package type										
Α	40x4x4						8	Output tube	diameter		
В	50x7x4						9T	0.9mm tight	tube		
C	60x7x4						9L	0.9mm loose	tube		
D	60x12x4						C2	2.0 mm cable	!		
E	80x20x6						B3	3.0 mm cable	!		
F	100x40x6						2F	250um fiber			
G	100x80x10						RF	Ribbon fiber			
Н	120x80x18										
1	140x115x18						9	Output fiber l	length		
J	19″1U Rack						05	0.5m			
S	Special						10	1.0m			
	•						15	1.5m			
4	Fiber type						20	2.0m			
D0	G.652.D						30	3.0m			
A1	G.657.A1										
A2	G.657.A2						10	Output conne	ector		
								SC/UPC			
5	Input tube diameter							SC/APC			
9T	0.9mm tight tube							SC/APC step 1	ferrule		
9L	0.9mm loose tube							LC/UPC			
C2	2.0 mm cable							LC/APC			
B3	3.0 mm cable							FC/UPC			
2F	250um fiber						FA	FC/APC			
RF	Ribbon fiber						FAT	FC/APC step	ferrule		
							00	No Connector			
								<u> </u>			

Fiber PLC Splitter



Note	

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