

Rack Mounted PLC Optical Splitters

Optical splitters play an important role in Fibre-to-the-Home (FTTH) networks by allowing a single PON interface to be shared among many subscribers. The Connectix Rack Mounted PLC Optical Splitter range provides equipment rack panel solutions in 1:4, 1:8, 1:12, 1:16, 1:32, 1:64 and 2:4, 2:8, 2:12, 2:16, 2:32, 2:64 variations. The optical splitter panels provide low insertion loss and can be provided in SC/APC and LC/APC variants.

Features & Benefits

- 1U and 2U options
- 19" Rack Mountable
- Conforms to Telcordia GR1209 and GR1221 standards
- Widely used in FTTx PON/GPON and POL network deployments



Specifications – 1xN PLC Splitter							
Parameters	1x2	1x4	1x8	1x16	1x32	1 x64	1x128
Operating Wavelength (nm)	1260 – 1650						
Fibre Type	G657A or customer specified						
Insertion Loss (dB)	3.8	7.1	10.2	13.5	16.8	20.1	23.4
Loss Uniformity (dB)	0.4	0.6	0.8	1.2	1.5	2	2.5
Return Loss (dB)	-55	-55	-55	-55	-55	-55	-55
Polarization Dependant (dB)	0.2	0.2	0.2	0.3	0.3	0.35	0.35
Directivity (dB)	55	55	55	55	55	55	55
Temperature Stability (-40 – +85°C) (dB)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Operating Temperature (°C)	-40 to +85						
Storage Temperature (°C)	-40 to +85						
Device Dimension (LxWxH) (mm)	40 x 4 x 4	40 x 4 x 4	40 x 4 x 4	50 x 4 x 4 / 45 x 5 x 4	50 x 7 x 4	60 x 12 x 4	N/A
Module Dimension (LxWxH) (mm)	100 x 80 x 10	100 x 80 x 10	100 x 80 x 10	120 x 80 x 18 / 100 x 80 x 10	140 x 115 x 18 / 120 x 80 x 18 / 100 x 80 x 10	140 x 115 x 18 / 120 x 80 x 18	140 x 115 x 18
Mini-Module Dimension (LxWxH) (mm)	60 x 7 x 4	60 x 7 x 4	60 x 7 x 4	60 x 12 x 4	80 x 20 x 6	100 x 40 x 6	N/A
LGX Box Dimension (LxWxH) (mm)	N/A	130 x 100 x 25	130 x 100 x 25	130 x 100 x 50	130 x 100 x 102	130 x 100 x 206	N/A

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Specifications – 2xN PLC Splitter							
Parameters	1x2	1x4	1x8	1x16	1x32	1x64	1x128
Operating Wavelength (nm)	1260 – 1650						
Fibre Type	G657A or customer specified						
Insertion Loss (dB)	4.0	7.3	10.5	13.8	17.0	20.5	24.2
Loss Uniformity (dB)	1.0	1.5	1.5	2.0	2.0	2.5	2.5
Return Loss (dB)	-55	-55	-55	-55	-55	-55	-55
Polarization Dependant (dB)	0.3	0.3	0.3	0.3	0.3	0.5	N/A
Directivity (dB)	55	55	55	55	55	55	55
Temperature Stability (-40 – +85°C) (dB)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Operating Temperature (°C)	-40 to +85						
Storage Temperature (°C)	-40 to +85						
Device Dimension (LxWxH) (mm)	40 x 4 x 4	50 x 4 x 4	50 x 4 x 4	50 x 4 x 4	60 x 7 x 4	60 x 12 x 4	N/A
Module Dimension (LxWxH) (mm)	100 x 80 x 10	100 x 80 x 10	100 x 80 x 10	120 x 80 x 18 / 100 x 80 x 10	140 x 115 x 18 / 120 x 80 x 18 / 100 x 80 x 10	140 x 115 x 18 / 120 x 80 x 18	140 x 115 x 18
Mini-Module Dimension (LxWxH) (mm)	60 x 7 x 4	60 x 7 x 4	60 x 7 x 4	60 x 12 x 4 / 70 x 12 x 4	80 x 20 x 6	100 x 40 x 6	N/A
LGX Box Dimension (LxWxH) (mm)	N/A	130 x 100 x 25	130 x 100 x 25	130 x 100 x 50	130 x 100 x 102	130 x 100 x 206	N/A

Ordering Information	
Product Description	Part Number
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:2 optical power splitter in LC/APC out LC/APC	009-019-035-02
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:4 optical power splitter in LC/APC out LC/APC	009-019-035-04
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:8 optical power splitter in LC/APC out LC/APC	009-019-035-08
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:16 optical power splitter in LC/APC out LC/APC	009-019-035-16
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:32 optical power splitter in LC/APC out LC/APC	009-019-035-32
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:64 optical power splitter in LC/APC out LC/APC	009-019-035-64

Ordering Information	
Product Description	Part Number
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:2 optical power splitter in SC/APC out SC/APC	009-019-030-02
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:4 optical power splitter in SC/APC out SC/APC	009-019-030-04
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:8 optical power splitter in SC/APC out SC/APC	009-019-030-08
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:16 optical power splitter in SC/APC out SC/APC	009-019-030-16
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:32 optical power splitter in SC/APC out SC/APC	009-019-030-32
Connectix 19" 1U Rack Mounted Panel loaded 1U 1:64 optical power splitter in SC/APC out SC/APC	009-019-030-64

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Ordering Information	
Product Description	Part Number
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:2 optical power splitter in LC/APC out LC/APC	009-019-036-02
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:4 optical power splitter in LC/APC out LC/APC	009-019-036-04
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:8 optical power splitter in LC/APC out LC/APC	009-019-036-08
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:16 optical power splitter in LC/APC out LC/APC	009-019-036-16
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:32 optical power splitter in LC/APC out LC/APC	009-019-036-32
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:64 optical power splitter in LC/APC out LC/APC	009-019-036-64

Ordering Information	
Product Description	Part Number
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:2 optical power splitter in SC/APC out SC/APC	009-019-032-02
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:4 optical power splitter in SC/APC out SC/APC	009-019-032-04
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:8 optical power splitter in SC/APC out SC/APC	009-019-032-08
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:16 optical power splitter in SC/APC out SC/APC	009-019-032-16
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:32 optical power splitter in SC/APC out SC/APC	009-019-032-32
Connectix 19" 1U Rack Mounted Panel loaded 1U 2:64 optical power splitter in SC/APC out SC/APC	009-019-032-64