

Fibre Optic Cabling

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	1x64	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 (mm) (L×W×H)	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	NA
Module Dimension (mm) (L×W×H)	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(mm) (L×W×H)	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	NA
LGX Box Dimension(mm) ((L×W×H)	NA	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	NA

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Specifications - 2xN PLC Splitter							
Parameters	2x2	2x4	2x8	2x16	2x32	2x64	2x128
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	NA
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 (mm) (L×W×H)	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	NA
Module Dimension (mm) (L×W×H)	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(mm) (L×W×H)	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	NA
LGX Box Dimension(mm) ((L×W×H)	NA	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	NA

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