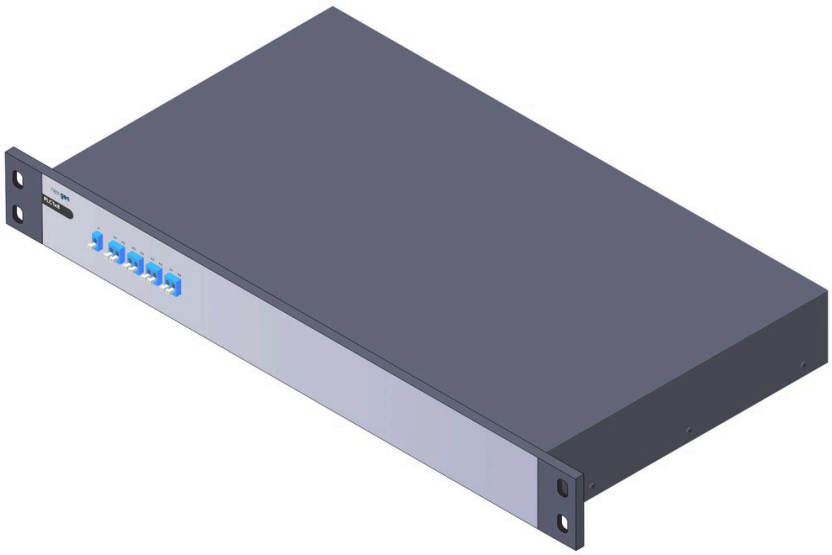
nex·gen

OTN SYSTEMS WDM PLATFORMS

PLC Optical Splitter

The PLC Optical Splitter is a passive planar-lightwave-circuit (PLC) power splitter offering 1xN or 2xN optical signal power distribution with excellent flatness and uniformity, even at high output counts, well suited to PON networks, cable distribution and optical network monitoring where many identical outputs are needed from a single input.



HIGHLIGHTS

1xN or 2xN configurations

From 2 to 64 equal outputs, single or dual input.

Low insertion & polarisation loss

Low insertion loss and polarisation dependent loss even at high split counts.

High channel count

Scales cleanly up to 1x64 / 2x64 while holding good uniformity.

Wide wavelength range

1260–1650nm, covering O, C and L bands.

High stability & reliability

Conforms to Telcordia GR-1209/GR-1221, wide operating temperature range.

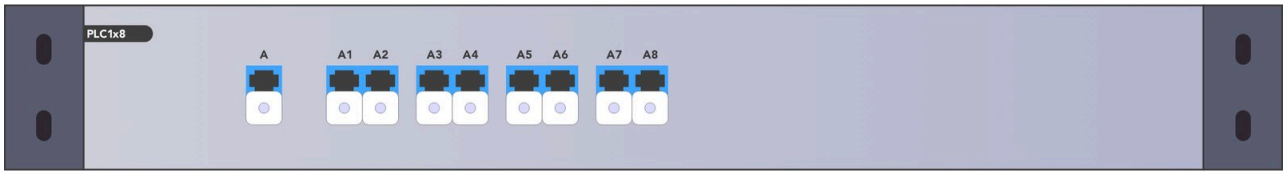
RoHS-6 compliant

Lead-free construction, two package options (ABS box or 1U rackmount).

FORMAT

ABS MODULE | 1U

FRONT PANEL



SPECIFICATIONS

Optical	
Operating Wavelength Range	1260–1650nm
Temperature Dependent Loss	<0.5dB
Return Loss	>55dB
Directionality	>55dB
Fibre Optic Interface Type	LC/UPC (LCU) · SC/UPC (SCU) · LC/APC (LCA) · SC/APC (SCA), other connector types available on request
Environmental & Mechanical	
Operating Temperature	−40°C–+85°C
Storage Temperature	−40°C–+85°C
Compliance	Telcordia GR-1209-CORE · Telcordia GR-1221-CORE · RoHS-6
Package Type	ABS box: (D)120mm×(W)80mm×(H)18mm · 1U rackmount: (D)220mm×(W)442mm×(H)44mm

Note: the specifications above do not include fibre optic connector loss; testing is at indoor room temperature.

PORT CONFIGURATION

PORT CONFIGURATION	MAX. INSERTION LOSS	UNIFORMITY	PDL	WDL
1x2	4.0dB	<0.6dB	<0.2dB	<0.3dB
1x4	7.2dB	<0.7dB	<0.2dB	<0.3dB
1x8	10.4dB	<0.8dB	<0.3dB	<0.3dB
1x16	13.6dB	<1.2dB	<0.3dB	<0.5dB
1x32	16.8dB	<1.5dB	<0.3dB	<0.8dB
1x64	20.5dB	<2.5dB	<0.3dB	<0.8dB
2x2	4.5dB	<1.0dB	<0.3dB	<0.4dB
2x4	7.6dB	<1.2dB	<0.3dB	<0.4dB
2x8	11.1dB	<1.5dB	<0.4dB	<0.6dB
2x16	14.3dB	<1.8dB	<0.4dB	<0.6dB
2x32	17.6dB	<2.0dB	<0.4dB	<0.8dB
2x64	21.3dB	<2.5dB	<0.4dB	<1.0dB

ORDERING INFORMATION

NAME	PLC Optical Splitter
DESCRIPTION	PLC Optical Splitter, passive planar-lightwave-circuit (PLC) power splitter with equal-ratio outputs, 1260-1650nm. Used in PON networks, cable distribution and optical network monitoring.
PART NUMBER	WDM-PLC- **{Config}** - **{Connector}** - **{Format}**

{Config}	1x2 · 1x4 · 1x8 · 1x16 · 1x32 · 1x64 · 2x2 · 2x4 · 2x8 · 2x16 · 2x32 · 2x64, see Port Configuration table above, required
{Connector}	LCU (LC/UPC) · SCU (SC/UPC) · LCA (LC/APC) · SCA (SC/APC), other connector types on request, required
{Format}	ABS (ABS box) · 1U (1U rackmount), required