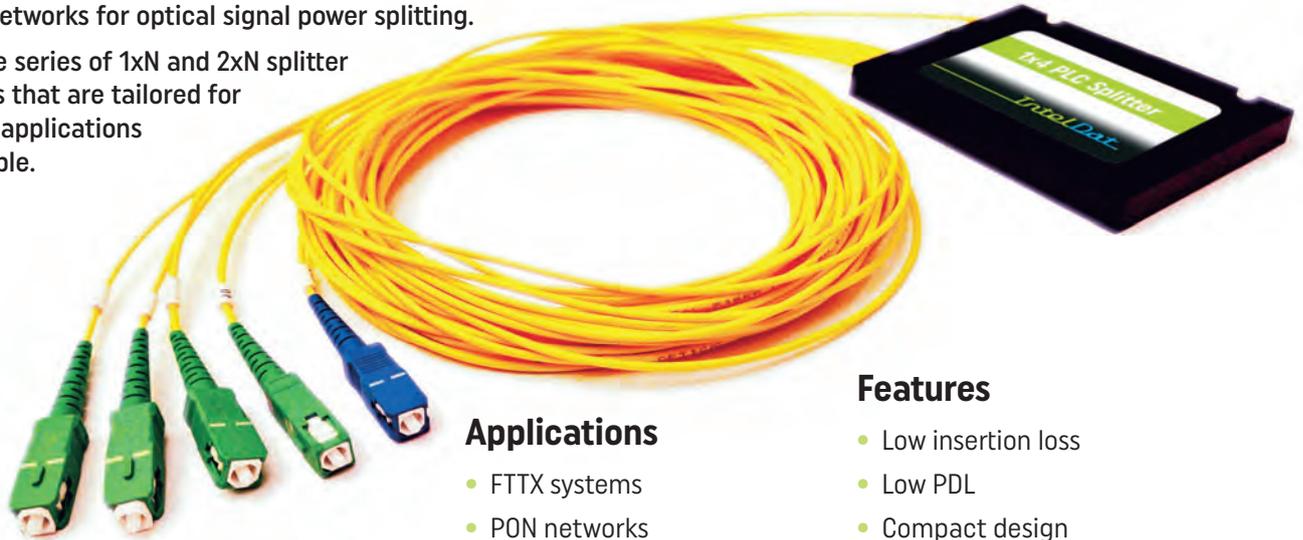


DSSP PLC Splitters for FTTX Applications

Our DSSP Planar Lightwave Circuit (PLC) splitter is an optical power management device fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks for optical signal power splitting.

An entire series of 1xN and 2xN splitter products that are tailored for specific applications is available.



Applications

- FTTX systems
- PON networks
- CATV links
- Optical signal distribution

Features

- Low insertion loss
- Low PDL
- Compact design
- Good channel-to-channel uniformity
- High reliability and stability

Specifications

1×N PLC Splitter Parameters	1×2	1×4	1×8	1×16	1×32	1×64
Operating Wavelength (nm)	1260~1650					
Fiber Type	SMF-28e or customer specified					
Insertion Loss (dB) (S/P Grade)	4.0/3.8	7.3/7.0	10.5/10.2	13.7/13.5	16.9/16.7	21.0/20.5
Loss Uniformity (dB)	0.4	0.6	0.8	1.2	1.5	2.5
Return Loss (dB) (S/P Grade)	50/55	50/55	50/55	50/55	50/55	50/55
Polarization Dependent Loss (dB)	0.2	0.2	0.2	0.25	0.3	0.4
Directivity (dB)	55	55	55	55	55	55
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.5	0.5	0.5
Temperature Stability (-40~85 °C) (dB)	0.4	0.4	0.4	0.5	0.5	0.5
Operating Temperature (°C)	-40~85					
Storage Temperature (°C)	-40~85					
Bare Fiber Type (steel tube dimension)	40×4×4	40×4×4	40×4×4	50×7×4	50×7×4	60×12×4
Steel Tube Dimension (mm)	60×7×4	60×7×4	60×7×4	60×12×4	80×20×6	80×30×10
ABS Box Dimension (mm)	100×80×10	100×80×10	100×80×10	120×80×18	140×115×18	140×115×18
2×N PLC Splitter Parameters	2×2	2×4	2×8	2×16	2×32	2×64
Operating Wavelength (nm)	1260~1650					
Fiber Type	G657A or customer specified					
Insertion Loss (dB) (S/P Grade)	4.2/4.0	7.6/7.4	11/10.8	14.4/14.2	17.5/17	21.5/21
Loss Uniformity (dB)	0.6	1.0	1.2	1.5	1.8	2.5
Return Loss (dB) (S/P Grade)	50/55	50/55	50/55	50/55	50/55	50/55
Polarization Dependent Loss (dB)	0.2	0.2	0.3	0.3	0.4	0.4
Directivity (dB)	55.0	55.0	55.0	55.0	55.0	55.0
Wavelength Dependent Loss (dB)	0.3	0.4	0.5	0.5	0.5	0.5
Temperature Stability (-40~85 °C) (dB)	0.4	0.4	0.4	0.5	0.5	0.5
Operating Temperature (°C)	-40~85					
Storage Temperature (°C)	-40~85					
Device Dimension (mm) (L×W×H)	50×4×4	50×4×4	50×4×4	60×7×4	60×7×4	60×12×4
Mini-Module Dimension (mm)	60×7×4	60×7×4	60×7×4	60×12×4	80×20×6	N/A
Module Dimension (mm) (L×W×H)	100×80×10	100×80×10	100×80×10	120×80×18	141×115×18	141×115×18

ORDERING CODES

DSSP: PLC Splitters for FTTX Applications

DS	SP	-	✓	-	✓	/	✓	-	✓	✓	-	✓	-	✓	
															Number of Ports
0102															1x2
0104															1x4
0108															1x8
0116															1x16
0132															1x32
0164															1x64
1128															1x128
0204															2x4
0208															2x8
0216															2x16
0232															2x32
0264															2x64
2128															2x128
															Input / Outputs Pigtail Style
0															Bare fiber 250 µm
1															Loose tube 900 µm
2															Tight buffer 900 µm
3															2.0 mm cable
4															3.0 mm cable
															Input / Output Connectors
0															None
1															SC/PC
2															SC/APC
3															FC/PC
4															FC/APC
5															ST
6															LC/PC
7															LC/APC
8															E2000/APC
															Fiber Length (m)
0															0.5 m
1															1 m
2															2 m
3															3 m
??															Specify length (m)
															Package Type
A															4x4x40 mm
B															4x7x50 mm
C															4x12x60 mm
D															4x7x60 mm
E															6x20x80 mm
F															100x80x10 mm
G															120x80x18 mm
H															140x115x18 mm
I															19" 1U rack
J															LGX box
Příklad															
DS	SP	-	0104	-	1	/	1	-	1	2	-	2	-	F	INTELDAT PLC splitter, 1x4, loose tube, 900 µm input and outputs, SC/PC input connector, SC/APC output connectors, 2 m outlet lengths, 100x80x10 mm package