

Planar Light Circuit (PLC) Splitter

Box Type and Micro Type



OFS-1XXX and OFS-2XXX

Application

PLC splitter for applications in all FTTH network architectures (GPON, BPON, EPON), Passive Optical LAN and CATV networks.

Product Picture



Environmental Conditions

Relative Humidity (Operational)	Temperature	
	Storage	Operational
Maximum Non Condensing 85%	-40 to +85°C	-40 to +°C

Optical Characteristics 1xN

Splitter Ratio	1x2	1x4	1x8	1x16	1x32	1x64	1x128
Operating Wavelength (nm)	1260 - 1650						
Insertion Loss (dB)	≤3.9	≤7.2	≤10.5	≤13.6	≤16.9	≤20.5	≤23.7
Loss Uniformity (dB)	≤0.6	≤0.6	≤0.8	≤1.0	≤1.5	≤2.0	≤2.0
Return Loss (dB)	≥55dB						
PDL (dB)	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3	≤0.4	≤0.5
WDL (dB)	≤0.8	≤1.0	≤1.2	≤1.3	≤1.5	≤1.5	≤2.0
Directivity (dB)	≥55dB						
Pigtail Length (m)	1.0m (To be specified at time of order)						
Fibre Type	G657a						
Note	Test values are without connectors, Connector nom value + 0.3dB, RL ≥50dB (UPC) and ≥55dB (APC)						

Optical Characteristics 2xN

Splitter Ratio	2x2	2x4	2x8	2x16	2x32	2x64	2x128
Operating Wavelength (nm)	1260 - 1650						
Insertion Loss (dB)	≤4.2	≤7.6	≤11.0	≤14.5	≤17.5	≤21.5	≤24.0
Loss Uniformity (dB)	≤1.0	≤1.2	≤1.2	≤1.5	≤1.8	≤2.0	≤2.0
Return Loss (dB)	≥55dB						
PDL (dB)	≤0.3	≤0.3	≤0.3	≤0.3	≤0.4	≤0.5	≤0.5
WDL (dB)	≤0.8	≤1.0	≤1.2	≤1.3	≤1.5	≤1.5	≤2.0
Directivity (dB)	≥55dB						
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General Characteristics – Box Splitter

Splitter	1 x 2	1 x 16	1 x 64		2 x 2	2 x 16	2 x 64	2 x 128
	1 x 4		1 x 128	2 x 4				
	1 x 8			2 x 8				
L	100mm	120mm	140mm	180mm	100mm	120mm	140mm	180mm
W	80mm	80mm	115mm	150mm	80mm	80mm	115mm	150mm
H	10mm	18mm	18mm	22mm	10mm	18mm	18mm	22mm

General Characteristics – Micro Type Splitter

Splitter	1 x 2	1 x 16	1 x 64	2 x 2	2 x 16	2 x 64
	1 x 4			2 x 4		
	1 x 8			2 x 8		
L	60mm	80mm	100mm	70mm	90mm	100mm
W	12mm	20mm	40mm	12mm	20mm	40mm
H	4mm	6mm	6mm	4mm	6mm	6mm

Reference Standards

IEC61753
UL94V-0
RoHS directives

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Ordering Information

Partnumber	Description
OFS-1002-015	PLC Splitter Box Type 1x2 2mm 1.5m
OFS-1004-015	PLC Splitter Box Type 1x4 2mm 1.5m
OFS-1008-015	PLC Splitter Box Type 1x8 2mm 1.5m
OFS-1016-015	PLC Splitter Box Type 1x16 2mm 1.5m
OFS-1032-015	PLC Splitter Box Type 1x32 2mm 1.5m
OFS-1064-015	PLC Splitter Box Type 1x64 2mm 1.5m
OFS-1128-015	PLC Splitter Box Type 1x128 2mm 1.5m
OFS-2002-015	PLC Splitter Box Type 2x2 2mm 1.5m
OFS-2004-015	PLC Splitter Box Type 2x4 2mm 1.5m
OFS-2008-015	PLC Splitter Box Type 2x8 2mm 1.5m
OFS-2016-015	PLC Splitter Box Type 2x16 2mm 1.5m
OFS-2032-015	PLC Splitter Box Type 2x32 2mm 1.5m
OFS-2064-015	PLC Splitter Box Type 2x64 2mm 1.5m
OFSM-1002-015	PLC Splitter Micro Type 1x2 2mm 1.5m
OFSM-1004-015	PLC Splitter Micro Type 1x4 2mm 1.5m
OFSM-1008-015	PLC Splitter Micro Type 1x8 2mm 1.5m
OFSM-1016-015	PLC Splitter Micro Type 1x16 2mm 1.5m
OFSM-1032-015	PLC Splitter Micro Type 1x32 2mm 1.5m
OFSM-1064-015	PLC Splitter Micro Type 1x64 2mm 1.5m
OFSM-1128-015	PLC Splitter Micro Type 1x128 2mm 1.5m
OFSM-2002-015	PLC Splitter Micro Type 2x2 2mm 1.5m
OFSM-2004-015	PLC Splitter Micro Type 2x4 2mm 1.5m
OFSM-2008-015	PLC Splitter Micro Type 2x8 2mm 1.5m
OFSM-2016-015	PLC Splitter Micro Type 2x16 2mm 1.5m
OFSM-2032-015	PLC Splitter Micro Type 2x32 2mm 1.5m
OFSM-2064-015	PLC Splitter Micro Type 2x64 2mm 1.5m

For Preconnected versions contact your local B3 International sales representative.