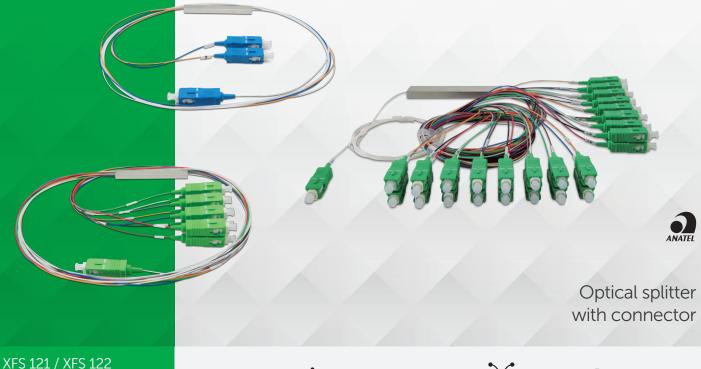
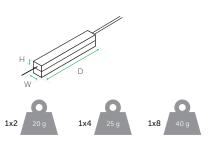
intelbras

Networks

WARRANTY

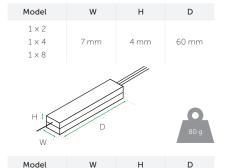


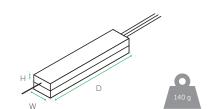


XFS 141 / XFS 142

XFS 181 / XFS 182 XFS 1161 / XFS 1162

XFS 1321 / XFS 1322





 Model
 W
 H
 D

 1 x 32
 20 mm
 6 mm
 80 mm

The PLC optical splitter - Planar Lightwave Circuit - is a passive component used to perform optical signal splitting in a PON distribution network. PLC technology allows the input power to be divided equally among all outputs. With low insertion loss and high reliability, it is ideal for wavelengths from 1,260 to 1,650 nm. It has low bend sensitivity fibers (G.657A) and is ideal for FTTH systems, HFC networks, and data communication.

PON

PASSIVE OPTICAL

Features

- » Indoor installation
- » Low insertion loss
- » Good channel-to-channel uniformity

OPTICAL

- » High reliability and stability
- » Compact size

ustrative ima

Technical Specifications

		1×2	1×4	1×8	1×16	1 × 32
Wavelength		1260 to 1650 nm				
Optical fiber		G.657.A1 - Single Mode				
Insertion loss*		≤ 4.0 dB	≤ 7.3 dB	≤ 10.5 dB	≤ 13.7 dB	≤ 16.9 dB
Uniformity*		≤ 0.6 dB	≤ 0.7 dB	≤ 0.8 dB	≤ 1.2 dB	≤ 1.5 dB
PDL*		0.2 dB	0.2 dB	0.2 dB	0.25 dB	0.25 dB
Directivity*		≥ 55 dB				
Return loss*		≥ 50 dB				
Storage Temperature		-40 °C to 85 °C				
Operation temperature		-5 °C to 75 °C				
Relative operation humidity		0% to 95%				
Cable Dimensions	Input	1.5 m				
	Outputs	0.6 m				
	Cable Diameter	0.9 mm				
Connector type		SC	SC	SC	SC	SC
Polishing		UPC or APC				
Insertion loss (IL)		≤ 0.3 dB – Class III				
Return Loss (RL)	Category C (UPC)	≥ 50 dB				
	Category D (APC)	≥ 60 dB				
Connection durability		≥ 600	≥ 600	≥ 600	≥ 600	≥ 600
Coupling type		Push-pull	Push-pull	Push-pull	Push-pull	Push-pull
Ferrule		Zirconia	Zirconia	Zirconia	Zirconia	Zirconia
SC connector dimensions (W X H X D)		9 × 8.2 × 60 mm	9 x 8.2 x 60 mm			

^{*} Connector losses not taken into account

Available models - Understand nomenclature



XFS 121
PLC Splitter 1 x 2 with SC/UPC connector



XFS 122
PLC Splitter 1 × 2 with SC/APC connector



XFS 141
PLC Splitter 1 × 4 with SC/UPC connector



XFS 142
PLC Splitter 1 × 4 with SC/APC connector



XFS 181
PLC Splitter 1 × 8 with SC/UPC connector



XFS 182 PLC Splitter 1 × 8 with SC/APC connector



XFS 1161 PLC Splitter 1×16 with SC/UPC connector



XFS 1162 PLC Splitter 1×16 with SC/APC connector



XFS 1321 PLC Splitter 1 × 32 with SC/UPC connector



XFS 1322 PLC Splitter 1 × 32 with SC/APC connector

XFS	1	xx	x
Splitter	Number of inputs	2 = 1 × 2	0 = without connector on input and outputs
		4 = 1 × 4	1 = SC/UPC connectors on input and outputs
PLC		8 = 1 × 8	2 = SC/APC connectors on input and outputs
FLC		16 = 1 × 16	
		32 = 1 × 32	
Example:			
XFS	1	4	0
PLC Splitter 1 × 4 without connectors			
XFS	1	32	1
PLC Splitter 1 \times 32 with SC/UPC connectors			
XFS	1	2	2

PLC Splitter 1 x 2 with SC/APC connectors

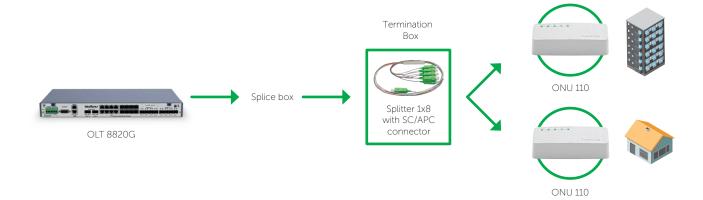
Note: for information about the models without connectors, see the manual of the PLC optical Splitter without connector



Notes regarding use

- » Remove the protection cap only at the time of use.
- » Do not touch the connector's ferrule.
- » Observe the minimum bend radius of the splitter cable.
- » Never direct the end of the optical fiber or the optical connectors toward the eyes. Optical radiation can be harmful.

Application Scenario



01.18

