

Splitter Assemblies

1:4 Splitter Harness



Features & Benefits

- Reduces cable clutter and optical loss caused by patch cords and splitter patch panels.
- Double-ended 8-fiber harness (end A), with 8 x integrated 1:4 PLC splitters (end B)
- Custom tails to match OLT equipment
- Low loss assembly with spliced splitter inputs
- Factory fitted modules for fast front-access installation
- Clear identification of output ports
- 8 x splitters per assembly and 32 x output ports
- Facilitates 96 output ports per 1U splitter chassis



Overview

The 1:4 splitter harness connects the OLT transmission equipment to the Feeder ODF in the Central Office/POP of a FTTH network. The harness is custom-made to match the ports of the OLT so that a fast installation can be made without the need to store excess patch cords in the equipment rack.

1:4 splitters are cleverly integrated into modules at the other end of the assembly so that each transmission signal from the OLT can be split four times before it is patched to the Feeder ODF system. Splitters are fusion spliced to pigtails inside of the module so that the optical loss is minimized. Splitter modules can be front-loaded into a high-density chassis system that can accommodate 3 x splitter harnesses (12 x modules).

Patch cords can be used to connect the splitter outputs at the front of the modules to ports on the Feeder ODF so that a high degree of flexibility can be made when connecting OLT ports to Feeder ports. This also allows P2P patch cords to connect from the OLT to the Feeder ODF while bypassing the splitter.

The harness is custom-made to match the ports of the OLT ([Nokia FX-16 *](#)) so that a fast installation can be made without the need to store excess patch cords in the equipment rack.

Technical Data

Optical Data 1:4 splitter

Operating wavelength	Return Loss	Directivity	Maximum input power	Fiber Type	Insertion Loss
mm	dB	dB	mW		dB
1260 -1650	≥50	≥55	500	G.657.A1	≤7.4

Uniformity	PDL	Wavelength Dependent Loss	Temperature Loss	Connector Loss
dB	dB	dB	dB	dB
≤0.8	≤0.2	0.8	0.5	0.30

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Operating temperature	2011/65/EC RoHS	Environmental Protection
-10 °C to 60 °C (14 °F to 140 °F)	Fully compliant	IP20, indoor use only

SC 2.0mm Boot

Part Number	Description
MH81040RLASU70MA	Module Harness, 8 x 1:4 splitters, Output LC/APC, Harness end SC/UPC, Length 7m for ports 1-8 of OLT
MH81040RLASU70MB	Module Harness, 8 x 1:4 splitters, Output LC/APC, Harness end SC/UPC, Length 7m for ports S 9-16 of OLT