

QSFP POLS

Pluggable Optical Line System (Dual 1*8 Splitter)

60PC30002(1448822)

The Coherent Pluggable Optical Line System (POLS) targets the requirements of Internet Service and Cloud Hosting Providers for high capacity optical data center links in an QSFP (Quad Small Form-factor Pluggable) module form factor that is easy to deploy and operate.

The POLS solution integrates the key elements of an optical transport system into a pluggable QSFP module supporting up to 8 DWDM wavelengths with a single fiber pair, and delivering up to 3.2Tbps of data center traffic over 100km when used in conjunction with the new generation of 400G-ZR digital coherent optics.

Enabled by Coherent high performance, miniature optical components including a 3-pin micro pump laser POLS provides an extremely compact, low power, cost effective solution with autonomous plug and play operation.

Deployed as a pair, the POLS modules include compact bidirectional optical amplifiers that can be directly plugged into an QSFP transceiver slot. An integrated cable provides colorless channel MUX/DMUX for the client side optics and asymmetric optical connectors provide error proof fiber connections. Auto provisioning manages link configuration and laser safety.

A pair of POLS modules provide autonomous optical amplification and MUX/DMUX capability to transport a maximum of 8x 400G-ZR channels between data center switches up to 100km apart using a simple self-provisioning architecture. The included colorless MUX/DMUX cables provide true plug and play operation.



FEATURES

- For use only with Coherent Pluggable Optical Line System (POLS) – not included
- Dual 1x8 cable for colorless channel MUX/DMUX
- Asymmetric connectors for error-proof fiber connection

APPLICATIONS

- Data Center Interconnects (DCI)

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1.0 Scope

- 1.1** This specification covers requirements for assembly, testing, marking, packaging and shipping of the Coherent PLC Splitter, 2-1x8, Duplex.
- 1.2** The 2-1x8 PLC Splitter is deployed on the Coherent QSFP-POLS, which is supporting up to 8 DWDM wavelengths with a single fiber pair and delivering up to 3.2Tbps of data center traffic over 100km. Note that changes to this document must be reflected in all relevant specifications and manufacturing documents that support this specification.

2.0 Related Documents

2.1 Internal Documents

Documents incorporated by reference (i.e. this document together with the documents incorporated by reference, form the entire specification.)

Document #	Title
NA	NA

2.2 External Documents (for reference only):

Document #	Title
GR-468-CORE	Reliability Assurance Practices for Optoelectronic Devices in Central Office Applications

3.0 Product Info

Product Name	Coherent PN	Coherent Product Code	Description
2-1x8 Splitter	1448822	60PC30002	DEMUX, GENERIC_1X8 SPLITTER

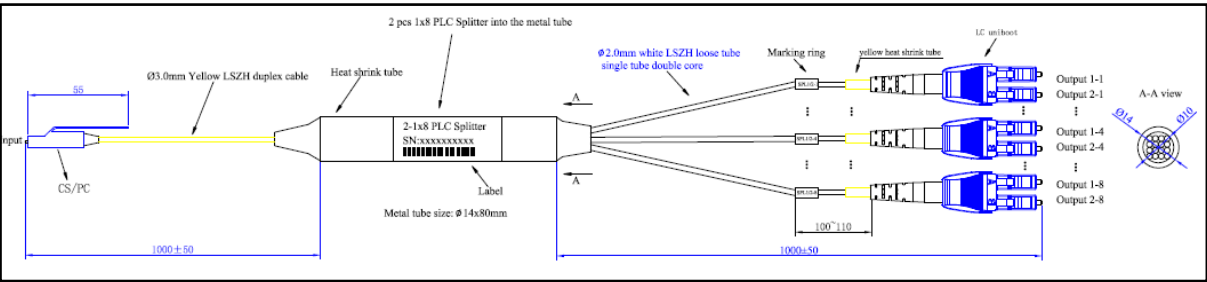
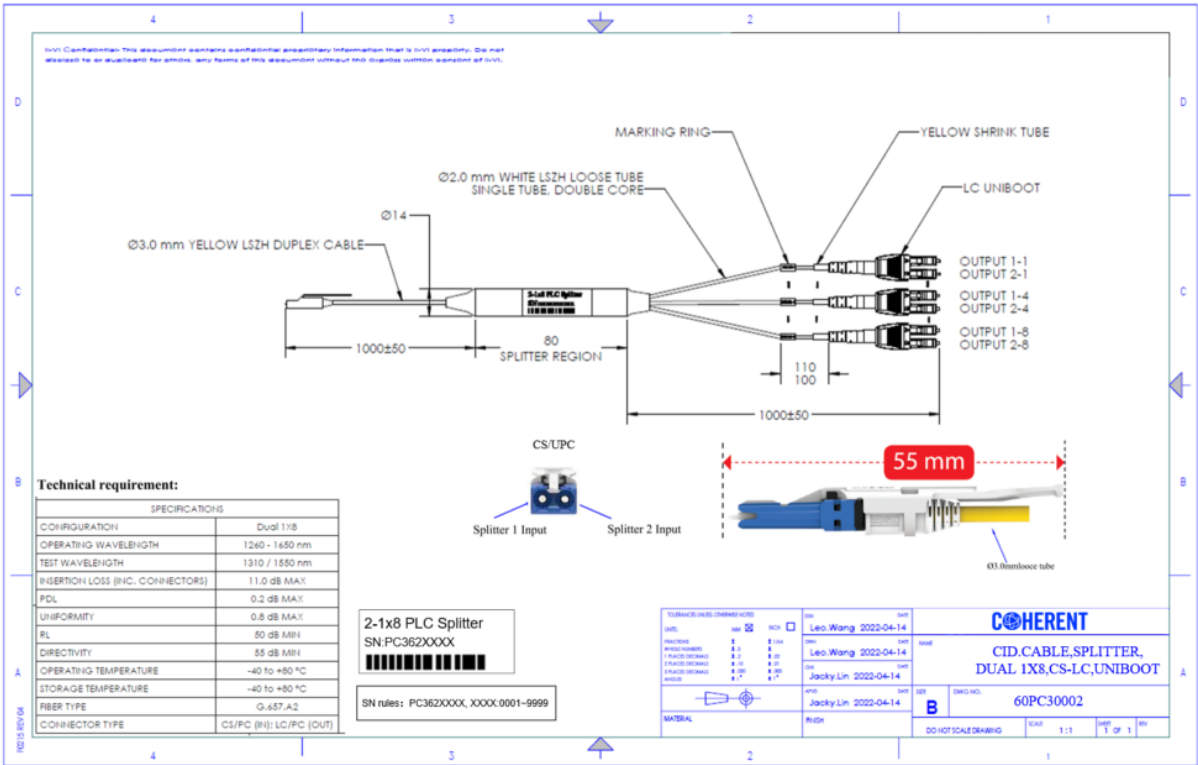
4.0 General Specification

8-ch Colorless MUX / DMUX Cable (1)	Min	Max	Units	
Operating Wavelength Rang	1260	1650	nm	
IL		11.0	dB	
IL Uniformity		0.8	dB	
PDL		0.5	dB	
Connector Channel In & Out	Duplex LC			
Connector MDM Comm In & Out	CS			
Operating Temperature	0	70	C	

(1) When used in conjunction with a Coherent POLS module

5.0 Product Dimensions

Product Dimensions



6.0 Environmental Specification

Parameter	Min	Max	Unit
Operating Case Temperature Range	-5	+70	°C
Storage Temperature Range	-40	+85	°C
Operating Humidity ¹	+5	+95	% RH

¹Non-condensing

7.0 Ordering Information

Coherent PN	Description	Minimum Order Quantity
60P020001	QSFP Pluggable Optical Line System for Coherent ZR	1pc ¹
60P200001	QSFP Pluggable Optical Line System for Coherent ZR	1pc ¹
60PC30002	8 Channel Passive Optical Splitter	1pc ¹

¹A pair of modules and a pair of cables are required to establish a point-to-point POLS system

8.0 Labelling & Packaging


COHERENT

2-1×8 Passive Opt Split

PN:60PC30002

SN:PC3060009

Made in CHINA



RoHS Compliance



Coherent is fully committed to environment protection and sustainable development and has set in place a comprehensive program for removing polluting and hazardous substances from all of its products. The relevant evidence of RoHS compliance is held as part of our controlled documentation for each of our compliant products. RoHS compliance parts are available to order, please refer to the ordering information section for further details.

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by Coherent before they become applicable to any particular order or contract.

In accordance with the Coherent policy of continuous improvement specifications may change without notice. Further details are available from any Coherent sales representative.

This product is protected by patent applications pending worldwide.

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9.0 Document Tracking

Date	ECO	Description of Modifications	Name	Issue/Rev
2023-06-05	E247094	First release 1448822	Jacky Lin	01
2023-10-24	E252354	Added operating wavelength and update label	Jacky Lin	02
2026-10-12	E325562	Update the latest Coherent file template	Jacky Lin	B00