Excel Enbeam 1x 8 Open-Ended PLC Splitter

Part Code: 208-902

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CIBSE TM65 Embodied Carbon: 0.093 kg CO2e



Main Features

- Compact design
- Operating wavelength from 1260 nm to 1650 nm
- CIBSE TM65 Embodied Carbon: 0.093 kg CO2e
- Low insertion loss
- 25 Year system warranty

Product Overview

The Enbeam Planar Lightwave Circuit (PLC) Splitter is fabricated using silica optical waveguide technology. Its compact size, high reliability, wide operating wavelength and good channel-to-channel uniformity is widely used in Passive Optical Networks (PON).

Excel provides whole series of 1xN splitter products that are tailored for specific applications. All products meet GR-1209-CORE and GR-1221-CORE requirements.

Product Specifications

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Feature	Values
Material	**Metal (housing)**

Additional specifications

Features	All	1x4	1x8	1x16	1x32
Operating wavelength	**1260 to 1650 nm**				
Fibre type	**G657A2**				
Temperature stability (dB)	**(-40 °C to 85 °C)**	**≤0.4**	**≤0.4**	**≤0.5**	**≤0.5**
Storage temperature	**-40 °C to 85 °C**				
Return loss	**≥55 dB**				
Directivity	**>55 dB**				
Wavelength dependent Loss (dB)		**0.3**	**0.3**	**0.3**	**0.5**
Insertion loss P/S Grade (dB)		**7.2/7.4**	**10.3/10.7**	**13.5/13.7**	**16.5/16.9**
Maximum power handling	**500 mW**				

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Additional specifications

Features	1x4	1x8	1x16	1x32
Loss Uniformity (dB)	**0.6**	**0.8**	**1**	**1.5**
Polarization Dependent Loss (dB)	**0.1**	**0.1**	**0.2**	**0.25**

Standards

Applicable standard	Detail
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states).
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant.
IEC 61754-1:2013	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 1: General and guidance
ISO/IEC 11801-1:2017	Information technology - Generic cabling for customer premises: Part 1 General Requirements
EN 50173-1:2018	Information technology. Generic cabling systems - General requirements
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH.

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Regulation (EU) 2019/1021 (POPs)	EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).
UK SI 2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

Part Code Table

Part Code	Description
208-901	**Excel Enbeam 1x 4 Open-Ended PLC Splitter**
208-902	**Excel Enbeam 1x 8 Open-Ended PLC Splitter**
208-903	**Excel Enbeam 1x 16 Open-Ended PLC Splitter**
208-904	**Excel Enbeam 1x 32 Open-Ended PLC Splitter**

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