



No:B21Z60483-SEM01

Product Carbon Footprint Verification Statement

Applicant Name: Yangtze Optical Fibre and Cable Joint Stock
Limited Company

Applicant Address: No.9 Optics Valley Avenue, Wuhan, Hubei,
China

Product Name: Optical cable

Product Model: Micro-module cable 144fo mod6

Verification Requested: ISO 14067:2018 / PAS 2050
ITU-T L.1410

System Boundary: From cradle to grave

Functional Units: 1 roll of optical cable (2.4km / reel)

Verification Conclusion: According to the data provided by the applicant,
the GHG emission per product was 3054.06
kg CO₂ eq.

Approved by:

Date: 2021-03-08

China Telecommunication Technology Labs

CTTL, China Telecommunication Technology Labs

No. 11, Yuetan South Street, Xicheng District, Beijing, P. R. China 100045.

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Verification source:

China Telecommunication Technology Labs (CTTL) has reached a bilateral agreement with Yangze Optical Fibre and Cable Joint Stock Limited Company to verify the product life cycle carbon footprints according to ISO 14067:2018 / PAS 2050 and ITU-T L.1410.

Data resources:

Primary activity data were collected from the manufacturing and field production phases; secondary activity data were collected from CLCD-CHINA0.8 and the EU ELCD database and the Swiss Ecoinvent database.

Verification tool:

The eFootprint, the LCA analysis software developed by IKE, was used to calculate the carbon footprint of the products.

Cut-off criteria:

When the weight of ordinary materials is less than 1% of the product weight, and the weight of materials with rare or high-purity components is less than 0.1% of the product weight, the upstream production data of the material can be ignored; the total weight of the ignored materials is not more than 5%.

Verification objective:

CO₂, CH₄, N₂O, and other greenhouse gases controlled by the Montreal Protocol, such as HFCs, PFCs, fluorinated ethers, perfluorinated polyethers, and other hydrocarbons.

Carbon emissions at various stages:

Process name	GHG	unit
Full cycle	3054.06	kgCO ₂ eq
Optical Cable Production [Production]	2843.52	kgCO ₂ eq
Long distance transportation of optical cables [use]	100.21	kgCO ₂ eq
Waste recovery of optical cables [waste]	110.33	kgCO ₂ eq

Note:

1. This verification statement is valid for two years and must be interpreted in conjunction with Yangze Optical Fibre and Cable Joint Stock Limited Company's carbon footprint evaluation report as a whole.
2. This verification statement is prepared by CTTL based on the carbon footprint evaluation results. After the consent of the customer issued. This verification statement does not relieve the customer of the obligation to comply with national laws and regulations, as well as any international guidelines issued. Customer and CTTL are independent of each other. Customer is not bound by CTTL and CTTL is not required to represent Customer to any other organization or body. This verification declaration shall not bind CTTL and CTTL shall not be liable to any party other than its Customer.