



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

1kV C16-95 Al/Cu Melbye Group



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Created with One Click LCA





MANUFACTURER

Manufacturer	Melbye Group
Address	Prost Stabels Vei 22, 2019 Skedsmokorset, Norway
Contact details	kontakt@melbye.no
Website	https://melbye.no

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	and ISO 14025
PCR	EPD Hub Core PCR Version 1.1, 5 Dec 2023
Sector	Electrical product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Aditya Dharmendra Nishad
EPD verification	Independent verification of this EPD and data, according to ISO 14025: □ Internal verification ☑ External verification
EPD verifier	Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	1kV C16-95 Al/Cu
Additional labels	See appendix
Product reference	1kV C1.5-16 Al/Cu,
	1kV C6-25 Al/Cu,
	1kV C6-50 Al/Cu,
	1kV C16-95 Al/Cu,
	1kV C25-150 Al/Cu,
	1kV C50-240 Al/Cu,
	1kV C120-300 Al/Cu,
	1kV C185-400 Al/Cu
Place of production	Binhai Industrial Zone Qidong,
	Jiangsu, Nantong, China
Period for data	1st January 2023 to 31st December
	2023
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	-

MEL BY E



ENVIRONMENTAL DATA SUMMARY

Declared unit	1 unit
Declared unit mass	0.0596 kg
GWP-fossil, A1-A3 (kgCO2e)	1.61E-01
GWP-total, A1-A3 (kgCO ₂ e)	1.45E-01
Secondary material, inputs (%)	0.55
Secondary material, outputs (%)	93
Total energy use, A1-A3 (kWh)	0.67
Net freshwater use, A1-A3 (m ³)	0

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Melbye Group is one of Norway's oldest family-owned companies, with a history dating all the way back to 1907. We have a proud tradition of technical innovation and trade, and today, we are a leading provider of forward-thinking products and system solutions for critical infrastructure. We have expertise within transmission and utilities, fiber, ducts and chambers and safety.

We serve customers throughout the Nordic region and the United Kingdom, engage with stakeholders across Europe, and collaborate with around 200 partners and suppliers.

While our headquarters are located just outside Oslo, Norway, we also have offices at multiple locations in Norway, Sweden, and the United Kingdom, as well as representatives in Finland, India and China. Together, we are more than 120 co-workers who share the company's core values: Innovation, teamwork, and professionalism.

With advanced expertise spread across our core areas and a dedication to long-term operation and future-oriented development, we stand at the forefront of addressing future challenges. We take pride in contributing to the development of critical infrastructure that will shape tomorrow's society.



This EPD covers a range of mechanical cable connectors made of tinned aluminium for low-voltage electrical applications. These connectors provide a secure, solder-free, and weld-free joint for aluminium and copper conductors. They feature torque-controlled hexagonal bolts for consistent tightening and internal transverse grooves for enhanced tensile strength.

The results presented in this EPD are based on a cable connector designed for conductors within a specified range. It has a defined outer and inner diameter, a total length, and includes pre-installed torque bolts for secure fastening.

Product Range Covered

This EPD applies to various mechanical cable connectors designed for different conductor sizes and electrical applications.

1kV C1.5-16 Al/Cu,
1kV C6-25 Al/Cu,
1kV C6-50 Al/Cu,
1kV C16-95 Al/Cu,
1kV C25-150 Al/Cu,
1kV C50-240 Al/Cu,
1kV C120-300 Al/Cu,
1kV C185-400 Al/Cu,
In the annex to this EPD, a scaling table is provided to reflect the GWP impacts for the range of products produced in the same plant.

Further information can be found at https://melbye.no.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	100	China
Minerals	-	-
Fossil materials	-	-
Bio-based materials	-	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	-
Biogenic carbon content in packaging, kg C	0.005454

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 unit
Mass per declared unit	0.0596 kg
Functional unit	-
Reference service life	30 Years

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).



PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage Assemi stage					Use stage								nd of l	ife sta	Beyond the system boundaries					
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	СЗ	C4		D			
×	×	×	×	×	MND	MND	MND	MND	MND	MND	MND	×	×	×	×		×			
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling		

Modules not declared = MND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

Manufacturing waste (machining chips is removed) percentage is different for each product, in this case it is 35.78% for Aluminium part.

Actual transport distances are considered for materials,

All the manufacturing process are done inhouse, the facility uses a mix of renewable and conventional energy sources.

Cable connectors are packed in corrugated boxes which are mounted on a pallet, both the pallet and box is outsourced.

Manufacturing waste – generated waste from is collected and sent for recycling & land filling using truck, 50 km is considered.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

A4 – Transportation to Construction Site

The transportation impacts from the final product delivery to the construction site (A4) include direct fuel combustion emissions, environmental impacts from fuel production, and associated infrastructure emissions.

Cable connectors are primarily used in Norway and Sweden. Accordingly, the shipping distance, including the distance from the port to the customer, is considered to be an average of 100 km.

A5 – Installation Phase

There is no material loss during installation, as the connectors are made of metal, which is highly durable and not prone to breakage or physical damage.

The connectors are directly installed onto the wire, eliminating the need for additional installation materials.

Installation is performed manually; however, an energy consumption of 0.01 kWh/kg has been considered as a standard assumption for installation energy use.

MEL BY E



A5 – End-of-Life Waste Management

There is no material loss during installation, as the connectors are made of metal, which is highly durable and not prone to breakage or physical damage.

The connectors are directly installed onto the wire, eliminating the need for additional installation materials.

Installation is performed manually; however, an energy consumption of 0.01 kWh/kg has been considered as a standard assumption for installation energy use.

A5 – End-of-Life Waste Management

The average transportation distance to the recycling facility is assumed to be 50 km, carried out by a lorry (>32 metric tons, EURO 6 standard).

Wooden packaging (untreated wooden wheel): The wood is incinerated, with energy and heat recovery benefits accounted for as per the EU wood packaging scenario.

PRODUCT USE AND MAINTENANCE (B1-B7)

This is not in scope of this EPD

Air, soil, and water impacts during the use phase have not been studied. The Reference Service Life (RSL) of 30 years is based on the expected durability and performance of the cable connector under typical operating conditions. This assumption considers the material properties, resistance to environmental factors, and the manufacturer's experience with similar products in electrical applications. The RSL applies when the product is installed and used as intended, without excessive mechanical stress or exposure to extreme conditions.

PRODUCT END OF LIFE (C1-C4, D)

The product is manually removed, with an assumed energy consumption of 0.01 kWh/kg for demolition. Cable Connectors are used in Norway and Sweden are transported to recycling or landfill via lorries (16–32 metric tons, Euro 6) over an average distance of 50 km.

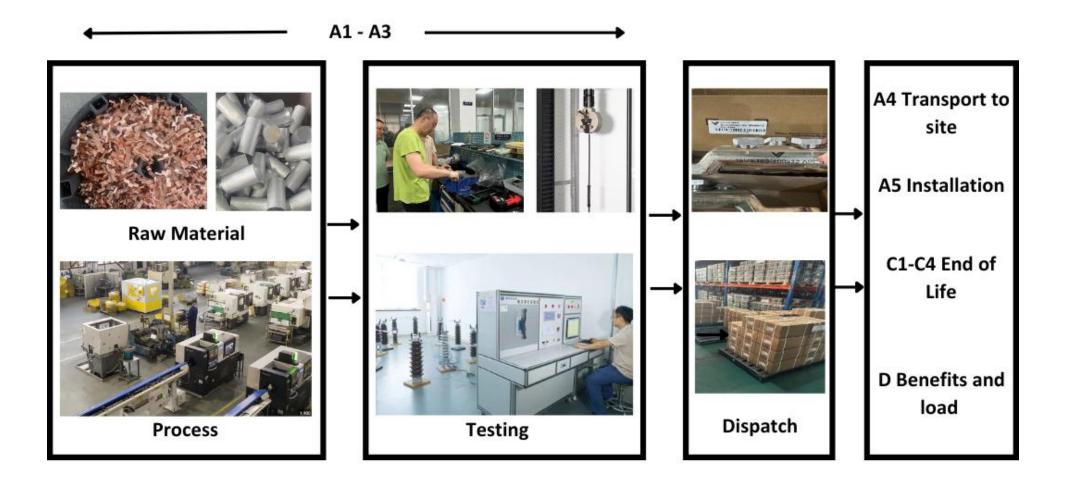
Aluminum components are primarily sent for recycling, with a small percentage landfilled. All recycled metal is processed in Norway and Sweden.

D – Wooden Packaging

Untreated wooden wheels are incinerated, with energy and heat recovery accounted for as per the EU Wood Packaging scenario.



MANUFACTURING PROCESS





LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows, grease and acid (for acid wash of finished components) are not taken into consideration allocating less than 1% of the total mass. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging material	Allocated by mass or volume
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	No averaging
Averaging method	Not applicable
Variation in GWP-fossil for A1-A3	-

This EPD is product and factory specific and does not contain average calculations.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1 environmental data sources follow the methodology 'allocation, Cutoff, EN 15804+A2'.



ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS - EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	СЗ	C4	D
GWP – total ¹⁾	kg CO₂e	8.91E-02	5.45E-03	5.02E-02	1.45E-01	7.39E-02	1.80E-02	MND	0.00E+00	1.53E-03	1.52E-03	9.15E-05	-7.71E-04						
GWP – fossil	kg CO₂e	8.89E-02	5.44E-03	6.70E-02	1.61E-01	7.38E-02	4.01E-04	MND	0.00E+00	1.53E-03	1.52E-03	9.14E-05	-2.70E-04						
GWP – biogenic	kg CO₂e	0.00E+00	0.00E+00	-1.68E-02	-1.68E-02	0.00E+00	1.76E-02	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.00E-04						
GWP – LULUC	kg CO2e	1.40E-04	2.44E-06	7.32E-05	2.15E-04	3.30E-05	1.57E-07	MND	0.00E+00	6.83E-07	1.79E-06	1.28E-07	-6.42E-07						
Ozone depletion pot.	kg CFC-11e	1.07E-09	8.04E-11	9.09E-10	2.06E-09	1.09E-09	5.39E-12	MND	0.00E+00	2.25E-11	1.64E-11	1.67E-12	-3.42E-12						
Acidification potential	mol H⁺e	4.29E-04	1.86E-05	5.77E-04	1.02E-03	2.52E-04	2.74E-06	MND	0.00E+00	5.20E-06	1.63E-05	5.29E-07	-1.71E-06						
EP-freshwater ²⁾	kg Pe	3.88E-05	4.24E-07	3.35E-05	7.27E-05	5.75E-06	4.91E-08	MND	0.00E+00	1.19E-07	8.24E-07	1.43E-08	-1.67E-07						
EP-marine	kg Ne	9.66E-05	6.10E-06	9.11E-05	1.94E-04	8.27E-05	2.09E-06	MND	0.00E+00	1.71E-06	3.62E-06	2.26E-07	-2.66E-07						
EP-terrestrial	mol Ne	9.09E-04	6.64E-05	9.40E-04	1.92E-03	9.00E-04	1.26E-05	MND	0.00E+00	1.86E-05	4.08E-05	2.00E-06	-2.62E-06						
POCP ("smog") ³)	kg NMVOCe	2.75E-04	2.74E-05	2.59E-04	5.61E-04	3.71E-04	3.93E-06	MND	0.00E+00	7.67E-06	1.20E-05	6.27E-07	-8.43E-07						
ADP-minerals & metals ⁴)	kg Sbe	5.17E-07	1.52E-08	3.04E-06	3.57E-06	2.06E-07	1.15E-09	MND	0.00E+00	4.26E-09	8.97E-08	2.44E-10	-3.72E-10						
ADP-fossil resources	MJ	1.17E+00	7.90E-02	7.61E-01	2.01E+00	1.07E+00	4.68E-03	MND	0.00E+00	2.21E-02	1.80E-02	1.55E-03	-4.42E-03						
Water use ⁵⁾	m³e depr.	2.66E-02	3.90E-04	3.43E-02	6.13E-02	5.29E-03	5.78E-05	MND	0.00E+00	1.09E-04	2.84E-04	3.75E-05	-8.66E-05						

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.



ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	С3	C4	D
Particulate matter	Incidence	7.23E-09	5.45E-10	1.86E-09	9.63E-09	7.39E-09	6.67E-11	MND	0.00E+00	1.53E-10	2.27E-10	9.71E-12	-1.45E-11						
Ionizing radiation ⁶⁾	kBq U235e	1.18E-02	6.88E-05	4.42E-03	1.63E-02	9.33E-04	1.16E-05	MND	0.00E+00	1.93E-05	6.45E-05	3.35E-06	-8.39E-05						
Ecotoxicity (freshwater)	CTUe	6.26E-01	1.12E-02	1.27E+00	1.90E+00	1.52E-01	5.27E-03	MND	0.00E+00	3.13E-03	1.04E-02	6.34E-01	-5.38E-04						
Human toxicity, cancer	CTUh	5.11E-11	8.99E-13	3.60E-11	8.80E-11	1.22E-11	1.48E-13	MND	0.00E+00	2.52E-13	1.22E-12	6.80E-14	-5.71E-14						
Human tox. non-cancer	CTUh	1.01E-09	5.12E-11	1.16E-09	2.21E-09	6.94E-10	7.09E-12	MND	0.00E+00	1.43E-11	7.78E-11	1.45E-11	-2.25E-12						
SQP ⁷⁾	-	6.06E-01	7.96E-02	1.10E+00	1.78E+00	1.08E+00	1.67E-03	MND	0.00E+00	2.23E-02	3.40E-02	2.38E-03	-2.69E-03						

6) EN 15804+A2 disclaimer for lonizing radiation, human health. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	С3	C 4	D
Renew. PER as energy ⁸⁾	MJ	1.70E-01	1.08E-03	2.28E-01	4.00E-01	1.47E-02	-8.16E-02	MND	0.00E+00	3.04E-04	2.79E-03	4.84E-05	1.98E-03						
Renew. PER as material	MJ	0.00E+00	0.00E+00	1.13E-01	1.13E-01	0.00E+00	-1.13E-01	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-03						
Total use of renew. PER	MJ	1.70E-01	1.08E-03	3.42E-01	5.13E-01	1.47E-02	-1.95E-01	MND	0.00E+00	3.04E-04	2.79E-03	4.84E-05	6.44E-03						
Non-re. PER as energy	MJ	1.17E+00	7.90E-02	7.64E-01	2.01E+00	1.07E+00	4.68E-03	MND	0.00E+00	2.21E-02	1.80E-02	1.55E-03	-4.42E-03						
Non-re. PER as material	MJ	0.00E+00	0.00E+00	6.72E-04	6.72E-04	0.00E+00	-6.72E-04	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04						
Total use of non-re. PER	MJ	1.17E+00	7.90E-02	7.64E-01	2.01E+00	1.07E+00	4.01E-03	MND	0.00E+00	2.21E-02	1.80E-02	1.55E-03	-4.16E-03						
Secondary materials	kg	3.30E-04	3.36E-05	3.55E-02	3.59E-02	4.56E-04	3.78E-06	MND	0.00E+00	9.43E-06	2.08E-05	6.16E-07	2.26E-06						
Renew. secondary fuels	MJ	6.34E-05	4.27E-07	4.91E-05	1.13E-04	5.79E-06	1.92E-08	MND	0.00E+00	1.20E-07	9.45E-07	8.54E-09	4.65E-07						
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
Use of net fresh water	m³	5.91E-04	1.17E-05	1.10E-03	1.70E-03	1.58E-04	-1.87E-06	MND	0.00E+00	3.27E-06	7.85E-06	-1.37E-05	-3.35E-06						

8) PER = Primary energy resources.



END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	6.75E-03	1.34E-04	5.32E-03	1.22E-02	1.82E-03	2.94E-05	MND	0.00E+00	3.75E-05	1.40E-04	1.17E-05	-1.95E-05						
Non-hazardous waste	kg	5.52E-01	2.48E-03	5.18E-01	1.07E+00	3.36E-02	4.92E-03	MND	0.00E+00	6.94E-04	3.94E-03	1.97E-02	-8.25E-04						
Radioactive waste	kg	2.94E-06	1.68E-08	1.50E-06	4.46E-06	2.28E-07	2.94E-09	MND	0.00E+00	4.72E-09	1.59E-08	8.19E-10	-2.15E-08						

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	С3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
Materials for recycling	kg	0.00E+00	0.00E+00	3.32E-02	3.32E-02	0.00E+00	3.82E-03	MND	0.00E+00	0.00E+00	5.60E-02	0.00E+00	0.00E+00						
Materials for energy rec	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-03	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
Exported energy – Electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
Exported energy – Heat	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

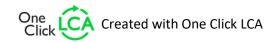
Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO₂e	9.64E-02	5.42E-03	6.70E-02	1.69E-01	7.34E-02	8.47E-04	MND	0.00E+00	1.52E-03	1.52E-03	9.11E-05	-2.70E-04						
Ozone depletion Pot.	kg CFC-11e	9.72E-10	6.41E-11	8.16E-10	1.85E-09	8.70E-10	4.31E-12	MND	0.00E+00	1.80E-11	1.36E-11	1.34E-12	-2.84E-12						
Acidification	kg SO₂e	3.50E-04	1.42E-05	4.96E-04	8.60E-04	1.92E-04	1.97E-06	MND	0.00E+00	3.97E-06	1.31E-05	3.92E-07	-1.45E-06						
Eutrophication	kg PO₄³e	8.60E-05	3.45E-06	1.26E-04	2.15E-04	4.69E-05	1.07E-06	MND	0.00E+00	9.68E-07	1.86E-06	2.65E-07	-1.66E-07						
POCP ("smog")	kg C₂H₄e	2.55E-05	1.26E-06	2.03E-05	4.71E-05	1.71E-05	2.57E-07	MND	0.00E+00	3.54E-07	7.75E-07	2.96E-08	-8.27E-08						
ADP-elements	kg Sbe	5.05E-07	1.48E-08	3.03E-06	3.55E-06	2.01E-07	1.13E-09	MND	0.00E+00	4.15E-09	8.95E-08	2.37E-10	-3.66E-10						
ADP-fossil	MJ	9.71E-01	7.79E-02	7.33E-01	1.78E+00	1.06E+00	4.48E-03	MND	0.00E+00	2.18E-02	1.70E-02	1.49E-03	-2.94E-03						



ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	С3	C4	D
GWP-GHG ⁹⁾	kg CO₂e	8.91E-02	5.45E-03	6.70E-02	1.62E-01	7.39E-02	4.01E-04	MND	0.00E+00	1.53E-03	1.52E-03	9.15E-05	-2.71E-04						

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product as defined by IPCC AR 5 (IPCC 2013). In addition, the characterisation factors for the flows - CH4 fossil, CH4 biogenic and Dinitrogen monoxide - were updated in line with the guidance of IES PCR 1.2.5 Annex 1. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterization factor for biogenic CO2 is set to zero.





SCALING TABLE FOR DIFFERENT TYPES OF cable connectors:

This EPD covers the following listed cable connectors:

Sr no.	Cable Connector Description	Weight (Kg)	GWP-total, (kgCO2e)	GWP-fossil, (kgCO2e)
1	1kV C1.5-16 Al/Cu	0.0095	0.02	0.02
2	1kV C6-25 Al/Cu	0.0194	0.07	0.07
3	1kV C6-50 Al/Cu	0.0246	0.07	0.07
4	1kV C16-95 Al/Cu	0.0596	0.24	0.24
5	1kV C25-150 Al/Cu	0.0932	0.36	0.36
6	1kV C50-240 Al/Cu	0.2375	0.99	0.98
7	1kV C120-300 Al/Cu	0.3149	1.19	1.19
8	1kV C185-400 Al/Cu	0.4438	1.85	1.85



VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? <u>Read more online</u> This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance. I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited 28.03.2025



VERIFIED ISO 14025

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