



In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

DEVI & EC Safe and Flex heating cables



| | |
|--------------------------------|---|
| Programme | The International EPD® System, www.environdec.com |
| Programme operator | EPD international |
| EPD issued | 10.10.2023 |
| EPD expires | 10.10.2028 |
| EPD registration number | S-P-09378 |
| EPD author | Danfoss Climate Solutions |
| EPD type | Cradle-to-gate with options (A4, A5, C1-C4 & D) |
| Declared unit | 1 m of cable with packaging |
| Products included | DEVI & EC Safe and Flex heating cables (sales codes present in Annex 1) |
| Manufacturing Location | Grodzisk, Poland |
| Use Location | Norway |
| Application | Multiple indoor floor constructions and pipe tracing applications |
| Mass | 54,6 g without packaging 74,6 g with packaging |
| Dimensions (H×W×D) | 1 m |
| Verification | <input checked="" type="checkbox"/> External <input type="checkbox"/> Internal <input type="checkbox"/> None |
| Produced to | PCR 1.25 Construction Products & NPCR 027 2022 Part B Electrical cables and wires A2 |
| External verifier | Odyssefs Papagiannidis, EPD Lead verifier under Bureau Veritas Certification Sweden, accredited by SWEDAC accr. no. 1236. |



Introduction

Programme information

| | |
|-------------------|---|
| Programme: | The International EPD® System |
| Address: | EPD International AB Box 210 60 SE-100 31 Stockholm Sweden |
| Website: | www.environdec.com |
| E-mail: | info@environdec.com |

Accountabilities for PCR, LCA and independent, third-party verification

Product Category Rules (PCR)

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product Category Rules (PCR): Construction products PCR 2019:14 v. 1.25, CPC code 46122
SubPCR: NPCR 027 2022 Part B Electrical cables and wires A2

PCR review was conducted by: The Technical Committee of the International EPD® System. Chair: Claudia Peña. Contact via info@environdec.com

Life Cycle Assessment (LCA)

LCA accountability: *Jaka Jelenc, Danfoss Climate Solutions A/S*

Third-party verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:

EPD verification by accredited certification body

Third-party verification: Odyssefs Papagiannidis, EPD Lead verifier on behalf of the *Bureau Veritas Certification Sweden*, an approved certification body accountable for the third-party verification.

The certification body is accredited by: *SWEDAC with accreditation number 1236*.

Introduction

This Environmental Product Declaration (EPD) follows the following Product Category Rules (PCR): Construction products PCR 2019:14 v 1.2.5. & NPC 027 Part B for electrical cables and wires, version 2.0. These rules provide a consistent framework for calculating and reporting the environmental performance of Danfoss' heating cables and is aligned with relevant international standards, particularly ISO 14025:2006 and EN 15804+A2:2019.

What is an EPD?

An EPD is a document used to communicate transparently, the quantified environmental impacts of a product over its lifecycle stages. This quantification is done by performing a Life Cycle Assessment (LCA) in line with a consistent set of rules known as a PCR (Product Category Rules).

An EPD provides:

- A product's carbon footprint together with other relevant environmental indicators, including air pollution, water use, energy consumption and waste, over its own life cycle (Modules A-C), as well as the expected benefits of reuse and recycling in reducing the impact of future products (Module D). See Table 1 for module descriptions.
- Environmental data allowing customers to calculate LCAs and produce EPDs for their own products.

Type of EPD

This EPD is of the type 'cradle-to-gate with options' and includes all relevant modules: production (A1-A3), shipping (A4), deconstruction (C1), waste collection and transport (C2), treatment (C3) and disposal (C4). It also includes potential net benefits to future products from recycling or reusing post-consumer waste (D). The codes in brackets are the module labels from EN 15804+A2. Modules concerning use, maintenance, repair, replacement, refurbishment (B1-B5) and operational water use (B7) are excluded, following the cut-off rules from EN 15804.

Introduction

Table 1: Modules of the product's life cycle included in the EPD

| | Product stage | | | Construction process stage | | Use stage | | | | | | | End of life stage | | | | Resource recovery stage |
|----------------------|--------------------------|-----------|---------------|----------------------------|---------------------------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|------------------------------------|
| | Raw material supply | Transport | Manufacturing | Transport | Construction installation | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential |
| Module | A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
| Modules declared | X | X | X | X | X | MND | MND | MND | MND | MND | MND | MND | X | X | X | X | X |
| Geography | EU-28 | | PL | NO | NO | - | - | - | - | - | - | - | NO | NO | NO | NO | NO |
| Specific data used | 90% | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation – products | 0% | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation – sites | Manufactured in one site | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

(X = declared module; MNR = module not relevant)

NO = Norway, PL = Poland

Product Description

DEVIflex™ & DEVIsafe™ are an extremely high-quality, 360° fully screened twin conductor cables with a tough outer sheath (DEVIflex™ non-UV stable & DEVIsafe™ UV stable). Its round profile and robust construction ensure a fast, simple, and safe installation in multiple indoor floor constructions and pipe tracing applications.

Heating cable must be used together with an appropriate thermostat to secure against overheating and reduce energy consumption.

To ensure a long lifetime, all cables are minutely inspected including tests for Ohmic resistance, high voltage, and material controls to ensure the quality. This means that we are proud to supply our extended DEVIwarranty™

See more information about DEVIsafe™ on [Danfoss product store](#).

See more information about DEVIflex™ on [Danfoss product store](#).



Figure 1: DEVIsafe™ heating cables.



Figure 2: DEVIflex™ heating cables.

Product Description

Intended market.

The intended market of this study is Norway, and the baseline scenario involves the distribution, installation, and end-of-life in Norway.

Table 2: Product composition

| Object description | Net weight | Unit | % |
|---------------------------|------------|------|------|
| Resin PVC | 25,1 | g | 36% |
| Masterbatch XLPE | 0,729 | g | 1% |
| Resin PEX LDPE | 13,45 | g | 19% |
| Aluminum foil | 1,7 | g | 2% |
| Copper | 13,636 | g | 20% |
| Glass fiber | 15,0 | g | 22% |
| Total product | 69,615 | g | 100% |
| Packaging cardboard | 19,43 | g | 97% |
| Packaging PS | 0,57 | g | 3% |
| Total packaging | 20,00 | g | 100% |
| Total product | 69,615 | g | 78% |
| Total packaging | 20,00 | g | 22% |
| Total product & packaging | 89,62 | g | 100% |

The EPD values were calculated for this composition, this composition represents the highest environmental values for all the product codes in DEVI & EC Flex and Safe heating cables, therefore it represents all the products in both product groups. All sales codes covered by this EPD are shown in table 14 & 15. Freeze cables are also included within the sales codes covered. The Devi & EC cables are the same products. DEVI and EC are two different brands of the same products and EC freeze is a product designed only for French market.

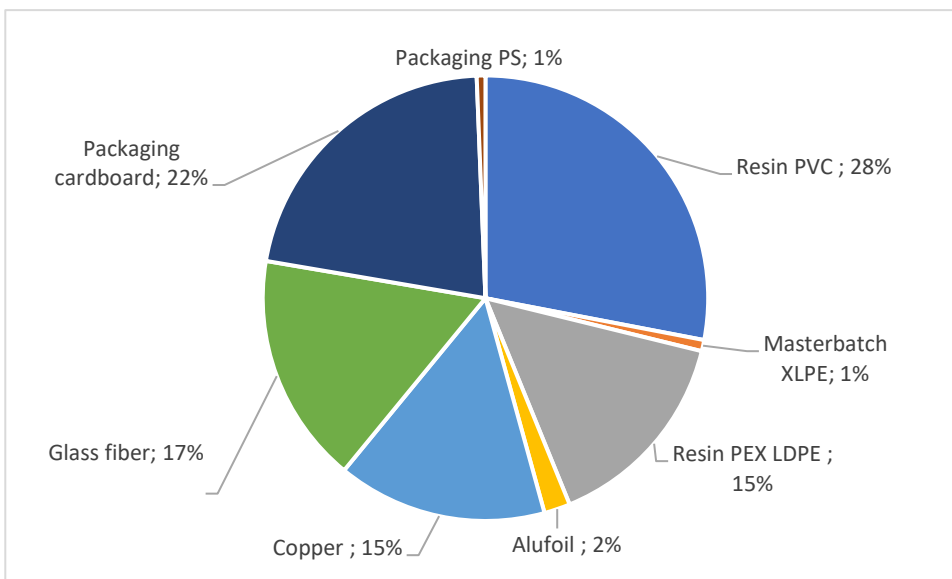


Figure 3: Material Composition Overview with packaging

Product Description

This EPD covers multiple sales codes for Safe & Flex heating cables. The outer insulation of the heating cables is made from the same material for all sales coded. Within these sales codes, there are also 5 material combinations for the heating part (metal wire) of the Safe & Flex cables. Tables 3 & 4 show the material compositions for all 5 combinations with their min and max values.

Table 3: Product composition for other Safe cable codes

| Cable type | Safe cable combinations |
|------------|-------------------------|
| a | Copper |
| b | Copper |
| | Stainless steel |
| c | Stainless steel |
| d | Copper |
| | Stainless steel |
| | Kevlar |
| e | Copper |
| | Kevlar |

Table 4: Product composition for other Flex cable codes

| Cable type | Flex cable combinations |
|------------|-------------------------|
| a | Copper |
| b | Cooper |
| | Stainless steel |
| c | Stainless steel |
| d | Cooper |
| | Stainless steel |
| | Kevlar |
| e | Cooper |
| | NICR |
| | Kevlar |

The declared unit is 1 m of cable with packaging. Mass of the declared unit is 74,62 g.

Due to their low mass Kevlar and NICR are excluded from the study. Glass was used to represent glass fiber in the LCA study.

The sales codes of all cables covered in this EPD, are presented in annex 1

Overview of LCA study

Data quality

Data quality of the selected datasets is generally assessed as good and very good in terms of geographical, time and technology representativeness and applicability. Background data is from LCA for Experts database version 2023. Data for this LCA, collected during the period 1.1.2022 – 31.12.2022.

Allocation and cut-off criteria

The allocation is made in accordance with the provisions of EN 15804+A2. All major raw materials and all the essential energy are included. All hazardous materials and substances are considered in the inventory. Data sets within the system boundary are complete and fulfil the criteria for the exclusion of inputs and output criteria. No known material or energy flows were ignored, including those which fell below the limit of 1%. Accordingly, the total sum of input flows ignored is certainly less than 5% of the energy and mass applied.

Due to their low mass Kevlar and NICR are excluded from the study. Glass was used to represent glass fiber in the LCA study.

System boundaries

The results in this EPD are split into life cycle modules following EN 15804 (Figure 1): production (A1-A3), distribution (A4) and the end of the product's life (C1-C4). Module D represents environmental benefits and loads that occur beyond the system boundary (i.e., in future products).

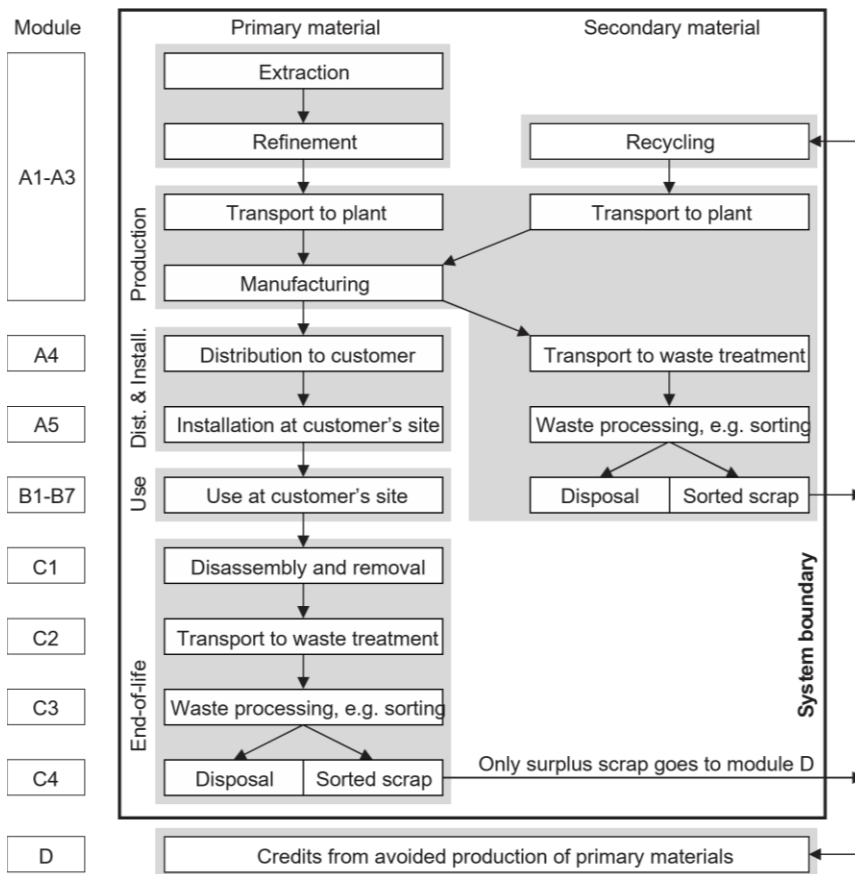


Figure 4: Modular structure used in this EPD (following EN 15804+A2)

Overview of LCA study

Product and packaging manufacture (A1-A3)

Final manufacturing occurs in the Grodzisk plant, Poland. The raw material is mainly sourced from Europe. Electricity is used to press the heating metal core together with the outside shell. The product is then cut to desired length, packed, and shipped to the customer. The facility is certified according to ISO 9001 & ISO 14001. Where waste generated on-site is recyclable, it is separated and recycled. For further information, [see here](#). The manufacturing plant also uses GOs, for its electricity consumption (Wind powered electricity).

Table 5: Biogenic carbon content in product & packaging

| | Total (excluding recycling) |
|---|-----------------------------|
| Biogenic carbon content in packaging [kg] | 0,00857 |

Note: 1 kg biogenic carbon is equivalent to 44/12 kg of CO₂.

Shipping and installation (A4-A5)

The intended market for Safe and Flex heating cables is Norway. The assembly factory is in Poland, so 1162 km by truck and 163 km by container ship (representing a ferry) was used to represent the distance between the factory and the final customer.

Module A5 includes disposal of packaging materials only, the benefits from e.g., energy recovered after plastic incineration are allocated to module D. The product is assumed to be installed by hand and there is no loss of product during installation. Energy use in handheld tools during installation is not included as it falls under the cut-off criteria.

End-of-life (C1-C4)

The following end-of-life procedure has been applied:

- Manual dismantling is used to separate recyclable bulk materials, e.g. bulk metals and plastics.
- Shredding is used for the remaining parts, such as printed circuit board assemblies.
- Ferrous metals, non-ferrous metals and bulk plastics are recovered through recycling.
- The remaining materials go to either energy recovery or landfill.

In line with EN 15804+A2, only the 'net scrap' (i.e., the leftover recyclable materials remaining after inputs of recycled content required in the manufacturing phase are first satisfied) is used to calculate the benefits and loads beyond the system boundary (Module D).

For this EPD an average scenario with 50% of the product sent to recycling % 50% of the product sent to landfill (C3, C4, D) was used.

This scenario is designed to represent an average end-of-life scenario.

For the EPD this average scenario was chosen as it is assumed that it represents the majority of cases on average.

Overview of LCA study

1. Recycling scenario with 100% of the product sent to recycling at the end-of-life, excluding fractions that cannot be recycled or incinerated (e.g., glass reinforcing in glass-filled plastics) and are sent to landfill.

This scenario illustrates best case performance. It assumes a 100% collection rate and best available recycling technologies. Under this scenario electrical cables, and all metals, flat glass and unreinforced plastics found within the body and chassis of the product are recycled. Printed circuit board assemblies are incinerated, and the copper and precious metals (gold, silver, palladium, and platinum) are recycled.

2. Landfill scenario with 100% of the product sent to landfill.

This scenario assumes that the whole product, including its packaging, is landfilled. It is designed to represent a poor end-of-life-route where valuable resources are lost.

Benefits and loads beyond the system boundary (D)

Module D considers the net benefit of recycling (including energy recovery) of materials in the product and packaging, taking account of losses in the recycling process and the recycled material used in the production of the product. Module D covers the two end-of-life scenarios, as described above.

Environmental performance

This section presents the environmental performance of 1 m of Flex heating cable without packaging. Figure 5 presents the environmental impact of 1m of Flex heating cable without packaging across a number of environmental impact categories (following EN 15804+A2:2019) per life cycle stage, over its full life cycle, including Global Warming Potential.

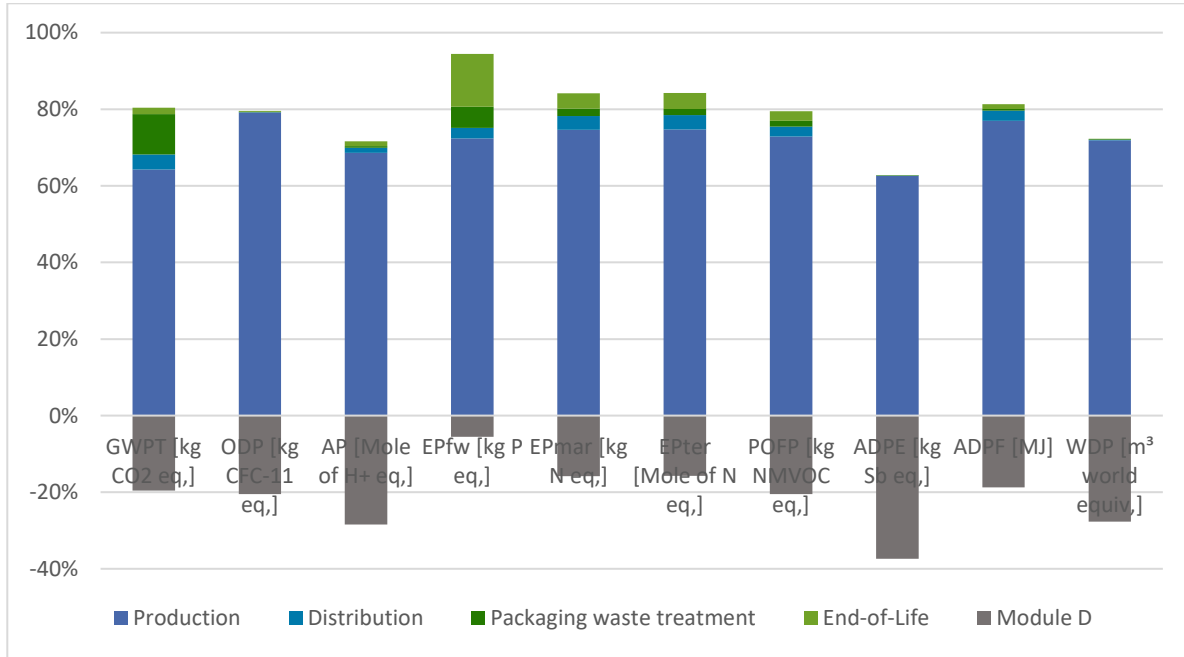


Figure 5: Breakdown of environmental impacts by life cycle stages (see Table 6 for descriptions of environmental impact indicators).

Environmental performance

Table 6: Environmental impact indicators per declared unit

| | Production | Distribution | Packaging waste treatment | End-of-Life | | | | |
|--|--|--|--|---|---|--------------------------------|---|--|
| Life cycle stages based on EN 15804+A2 | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| Description | Manufacture of the product from 'cradle-to-gate' | Transport of the product to the customer | Installation of the product and disposal of used packaging | Deinstallation of the product from the site | Transport of the product to waste treatment | Processing waste for recycling | Disposal of waste that cannot be recycled (through landfill and incineration) | Potential benefits and loads beyond the system boundary due to reuse, recycling, and energy recovery |
| Environmental Impact Indicators | | | | | | | | |
| GWPT [kg CO2 eq.] | 2,04E-01 | 1,24E-02 | 3,35E-02 | 0,00E00 | 7,11E-04 | 2,91E-03 | 1,80E-03 | -6,21E-02 |
| GWPF [kg CO2 eq.] | 2,35E-01 | 1,23E-02 | 1,93E-03 | 0,00E00 | 7,11E-04 | 2,89E-03 | 1,80E-03 | -6,20E-02 |
| GWPB [kg CO2 eq.] | -3,15E-02 | 0,00E+00 | 3,15E-02 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| GWPLULUC [kg CO2 eq.] | 4,21E-04 | 1,11E-04 | 1,95E-06 | 0,00E00 | 1,72E-08 | 2,64E-05 | 1,79E-06 | -1,31E-04 |
| ODP [kg CFC-11 eq.] | 1,23E-12 | 1,58E-15 | 1,28E-15 | 0,00E00 | 8,30E-20 | 3,71E-16 | 2,55E-15 | -3,18E-13 |
| AP [Mole of H+ eq.] | 1,51E-03 | 2,85E-05 | 1,02E-05 | 0,00E00 | 9,75E-07 | 1,80E-05 | 7,65E-06 | -6,25E-04 |
| EPfw [kg P eq.] | 1,15E-06 | 4,40E-08 | 8,74E-08 | 0,00E00 | 1,54E-10 | 1,05E-08 | 2,10E-07 | -8,80E-08 |
| EPmar [kg N eq.] | 2,14E-04 | 1,01E-05 | 5,51E-06 | 0,00E00 | 3,88E-07 | 8,75E-06 | 2,44E-06 | -4,55E-05 |
| EPter [Mole of N eq.] | 2,29E-03 | 1,15E-04 | 5,03E-05 | 0,00E00 | 4,27E-06 | 9,70E-05 | 2,68E-05 | -4,82E-04 |
| POFP [kg NMVOC eq.] | 6,75E-04 | 2,40E-05 | 1,38E-05 | 0,00E00 | 9,23E-07 | 1,67E-05 | 6,15E-06 | -1,90E-04 |
| ADPE [kg Sb eq.] | 4,29E-05 | 7,95E-10 | 9,85E-11 | 0,00E00 | 2,53E-11 | 1,88E-10 | 5,60E-11 | -2,56E-05 |
| ADPF [MJ] | 4,77E+00 | 1,67E-01 | 2,61E-02 | 0,00E00 | 1,03E-02 | 3,89E-02 | 2,57E-02 | -1,16E+00 |
| WDP [m ³ world equiv.] | 5,42E-02 | 1,46E-04 | 1,17E-04 | 0,00E00 | 1,20E-06 | 3,45E-05 | 1,68E-05 | -2,09E-02 |

Environmental performance

Table 7: GWP-GHG indicator

| | Production | Distribution | Packaging waste treatment | End-of-Life | | | | |
|--|--|--|--|---|---|--------------------------------|---|--|
| Life cycle stages based on EN 15804+A2 | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| Description | Manufacture of the product from 'cradle-to-gate' | Transport of the product to the customer | Installation of the product and disposal of used packaging | Deinstallation of the product from the site | Transport of the product to waste treatment | Processing waste for recycling | Disposal of waste that cannot be recycled (through landfill and incineration) | Potential benefits and loads beyond the system boundary due to reuse, recycling, and energy recovery |
| Environmental Impact Indicators | | | | | | | | |
| GWP-GHG [kg CO2 eq.] | 2,35E-01 | 1,24E-02 | 1,93E-03 | 0,00E+00 | 0,00E+00 | 7,11E-04 | 2,91E-03 | 1,80E-03 |

How to read scientific numbers:

e.g. $2,05E02 = 2,05 \times 10^2 = 205$

$2,04E-01 = 2,04 \times 10^{-1} = 0,204$

Environmental performance

Table 7: Environmental impact indicator descriptions

| Acronym | Unit | Indicator |
|----------|--------------------------|--|
| GWPT | kg CO ₂ eq. | Carbon footprint (Global Warming Potential) – total |
| GWPF | kg CO ₂ eq. | Carbon footprint (Global Warming Potential) – fossil |
| GWPB | kg CO ₂ eq. | Carbon footprint (Global Warming Potential) – biogenic |
| GWPLULUC | kg CO ₂ eq. | Carbon footprint (Global Warming Potential) – land use and land use change |
| ODP | kg CFC-11 eq. | Depletion potential of the stratospheric ozone layer |
| AP | Mole H ⁺ eq. | Acidification potential |
| EPfw | kg P eq. | Eutrophication potential – aquatic freshwater |
| EPmar | kg N eq. | Eutrophication potential – aquatic marine |
| EPter | Mole of N eq. | Eutrophication potential – terrestrial |
| POFP | kg NMVOC eq. | Summer smog (photochemical ozone formation potential) |
| ADPE* | kg Sb eq. | Depletion of abiotic resources – minerals and metals |
| ADPF* | MJ | Depletion of abiotic resources – fossil fuels |
| WDP* | m ³ world eq. | Water deprivation potential (deprivation-weighted water consumption) |

Results for module A1-A3 are specific to the product. All results from module A4 onwards should be considered as scenarios that represent one possible outcome. The true environmental performance of the product will depend on actual use.

The results in this section are relative expressions only and do not predict actual impacts, the exceeding of thresholds, safety margins, or risks. EPDs from others may not be comparable.

Carbon footprint

The total carbon footprint (GWPT), cradle-to-grave, of the product is 2,54E-01 kg CO₂-eq (A1-C4). The carbon footprint (GWPT) of production of this product, cradle-to-gate, is 2,04E-01 kg CO₂-eq (A1-A3).

Environmental performance

Table 8: Resource use per declared unit

| | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|----------------------|----------|----------|----------|---------|----------|----------|----------|-----------|
| PERE [MJ] | 1,79E+00 | 1,19E-02 | 1,59E-03 | 0,00E00 | 3,38E-05 | 2,83E-03 | 2,10E-03 | -1,94E-01 |
| PERM [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E00 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT [MJ] | 1,79E+00 | 1,19E-02 | 1,59E-03 | 0,00E00 | 3,38E-05 | 2,83E-03 | 2,10E-03 | -1,94E-01 |
| PENRE [MJ] | 4,35E+00 | 1,67E-01 | 2,73E-02 | 0,00E00 | 1,03E-02 | 3,90E-02 | 2,57E-02 | -1,16E+00 |
| PENRM [MJ] | 4,22E-01 | 0,00E+00 | 0,00E+00 | 0,00E00 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT [MJ] | 4,78E+00 | 1,67E-01 | 2,73E-02 | 0,00E00 | 1,03E-02 | 3,90E-02 | 2,57E-02 | -1,16E+00 |
| SM [kg] | 1,39E-02 | 0,00E+00 | 0,00E+00 | 0,00E00 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| RSF [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E00 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| NRSF [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E00 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| FW [m ³] | 1,83E-03 | 1,31E-05 | 3,73E-06 | 0,00E00 | 5,43E-08 | 3,10E-06 | 1,15E-06 | -5,10E-04 |

Table 9: Resource use indicator descriptions

| Acronym | Unit | Indicator |
|---------|----------------|---|
| PERE | MJ | Use of renewable primary energy excluding renewable primary energy resources used as raw materials |
| PERM | MJ | Use of renewable primary energy resources used as raw materials |
| PERT | MJ | Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials) |
| PENRE | MJ | Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials |
| PENRM | MJ | Use of non-renewable primary energy resources used as raw materials |
| PENRT | MJ | Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) |
| SM | kg | Use of secondary material |
| RSF | MJ | Use of renewable secondary fuels |
| NRSF | MJ | Use of non-renewable secondary fuels |
| FW | m ³ | Net use of fresh water |

Environmental performance

Table 10: Waste categories and output flows per declared unit

| | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|-----------|----------|----------|----------|---------|----------|----------|----------|-----------|
| HWD [kg] | 3,67E-08 | 5,18E-13 | 9,16E-13 | 0,00E00 | 7,06E-14 | 1,21E-13 | 1,49E-12 | -1,50E-08 |
| NHWD [kg] | 3,05E-02 | 2,53E-05 | 7,45E-03 | 0,00E00 | 1,03E-06 | 5,95E-06 | 3,48E-02 | -1,23E-02 |
| RWD [kg] | 1,46E-04 | 3,11E-07 | 1,64E-07 | 0,00E00 | 1,10E-08 | 7,30E-08 | 2,41E-07 | -1,13E-05 |
| CRU [kg] | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MFR [kg] | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E+00 | 2,54E-02 | 0,00E+00 |
| MER [kg] | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE [MJ] | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EET [MJ] | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |

Table 11: Waste category and output flow descriptions

| Acronym | Unit | Indicator |
|---------|------|-------------------------------|
| HWD | kg | Hazardous waste disposed |
| NHWD | kg | Non-hazardous waste disposed |
| RWD | kg | Radioactive waste disposed |
| CRU | kg | Components for reuse |
| MFR | kg | Materials for recycling |
| MER | kg | Materials for energy recovery |
| EEE | kg | Exported energy (electrical) |
| EET | kg | Exported energy (thermal) |

Environmental performance

Table 12: Additional indicators*

| | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|-------------------------|----------|----------|----------|---------|----------|----------|----------|-----------|
| PM [Disease incidences] | 1,27E-08 | 2,81E-10 | 7,58E-11 | 0,00E00 | 1,35E-11 | 1,16E-10 | 7,10E-11 | -5,30E-09 |
| IRP [kBq U235 eq.] | 2,34E-02 | 4,64E-05 | 2,15E-05 | 0,00E00 | 1,56E-06 | 1,09E-05 | 3,42E-05 | -1,75E-03 |
| ETPfw [CTUe] | 2,92E+00 | 1,18E-01 | 2,27E-02 | 0,00E00 | 7,43E-03 | 2,76E-02 | 5,50E-02 | -7,60E-01 |
| HTPc [CTUh] | 1,14E-10 | 2,42E-12 | 6,49E-13 | 0,00E00 | 1,38E-13 | 5,65E-13 | 1,11E-12 | -3,60E-11 |
| HTPnc [CTUh] | 5,95E-09 | 1,35E-10 | 6,24E-11 | 0,00E00 | 6,04E-12 | 3,55E-11 | 9,80E-11 | -2,57E-09 |
| SQP [Pt] | 2,70E+00 | 6,85E-02 | 3,88E-03 | 0,00E00 | 2,62E-05 | 1,63E-02 | 2,34E-03 | -4,28E-01 |

Table 13: Optional indicator descriptions

| Acronym | Unit | Indicator |
|---------|-------------------|--|
| PM | Disease incidence | Potential incidence of disease due to particulate matter emissions |
| IRP** | kBq U235 eq. | Potential human exposure efficiency relative to U235 |
| ETPfw* | CTUe | Potential Comparative Toxic Unit for ecosystems (fresh water) |
| HTPc* | CTUh | Potential Comparative Toxic Unit for humans (cancer) |
| HTPnc* | CTUh | Potential Comparative Toxic Unit for humans (non-cancer) |
| SQP* | Dimensionless | Potential soil quality index |

*Disclaimer for ADPE, ADPF, WDP, ETPfw, HTPc, HTPnc, SQP: 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 experienced with the indicator.

**Disclaimer for ionizing radiation: 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.

Annex 1

Annex 1: The sales codes of all cables covered in this EPD

To calculate the actual environmental impacts of purchased products, just multiply the environmental impacts from this EPD with the length [m] of the purchased product sales code.

Example:

Sales code: 088L6021

Length: 2 m

GPWT: 0,254 kgCO₂eq/m

Greenhouse gases from the cable 2 m x 0,254 kgCO₂eq/m = 0,508 kgCO₂eq

The sales codes of all EC & DeviFLEX cables covered in this EPD, are presented in table 14.

Table 14: Flex sales codes, covered by this EPD

| Devi FLEX | | | |
|------------|----------------------------|------------|-------------|
| Sales code | Product description | Length [m] | Combination |
| 088L6021 | ECflex 10T 2m 230V 20W | 2,0 | e |
| 088L6022 | ECflex 10T 4m 230V 40W | 4,0 | e |
| 088L6023 | ECflex 10T 6m 230V 60W | 6,0 | d |
| 088L6024 | ECflex 10T 8m 230V 80W | 8,0 | d |
| 088L6025 | ECflex 10T 10m 230V 100W | 10,0 | d |
| 088L6026 | ECflex 10T 20m 230V 205W | 20,0 | c |
| 088L6027 | ECflex 10T 30m 230V 290W | 30,0 | b |
| 088L6028 | ECflex 10T 40m 230V 390W | 40,0 | b |
| 088L6029 | ECflex 10T 50m 230V 505W | 50,0 | b |
| 088L6030 | ECflex 10T 60m 230V 600W | 60,0 | a |
| 088L6031 | ECflex 10T 70m 230V 695W | 70,0 | a |
| 088L6032 | ECflex 10T 80m 230V 795W | 80,0 | a |
| 088L6034 | ECflex 10T 100m 230V 990W | 100,0 | a |
| 088L6035 | ECflex 10T 120m 230V 1220W | 120,0 | a |
| 088L6036 | ECflex 10T 140m 230V 1410W | 140,0 | a |
| 088L6037 | ECflex 18T 7,3m 230V 130W | 7,3 | d |
| 088L6038 | ECflex 18T 10m 230V 180W | 10,0 | d |
| 088L6039 | ECflex 18T 15m 230V 270W | 15,0 | c |
| 088L6040 | ECflex 18T 22m 230V 395W | 22,0 | b |
| 088L6041 | ECflex 18T 29m 230V 535W | 29,0 | b |
| 088L6042 | ECflex 18T 34m 230V 615W | 34,0 | b |
| 088L6043 | ECflex 18T 37m 230V 680W | 37,0 | b |
| 088L6044 | ECflex 18T 44m 230V 820W | 44,0 | a |
| 088L6045 | ECflex 18T 52m 230V 935W | 52,0 | a |
| 088L6046 | ECflex 18T 59m 230V 1075W | 59,0 | a |
| 088L6047 | ECflex 18T 68m 230V 1220W | 68,0 | a |

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|----------|---------------------------------------|-------|---|
| 088L6048 | ECflex 18T 74m 230V 1340W | 74,0 | a |
| 088L6049 | ECflex 18T 82m 230V 1485W | 82,0 | a |
| 088L6050 | ECflex 18T 90m 230V 1625W | 90,0 | a |
| 088L6051 | ECflex 18T 105m 230V 1880W | 105,0 | a |
| 088L6052 | ECflex 18T 118m 230V 2135W | 118,0 | a |
| 088L6053 | ECflex 18T 131m 230V 2420W | 131,0 | a |
| 088L6054 | ECflex 18T 155m 230V 2775W | 155,0 | a |
| 088L6055 | ECflex 20T 7,1m 230V 140W | 7,1 | d |
| 088L6056 | ECflex 20T 10m 230V 195W | 10,0 | d |
| 088L6057 | ECflex 20T 16,5m 230V 330W | 16,5 | c |
| 088L6058 | ECflex 20T 21m 230V 415W | 21,0 | b |
| 088L6059 | ECflex 20T 28m 230V 555W | 28,0 | b |
| 088L6060 | ECflex 20T 32m 230V 650W | 32,0 | b |
| 088L6061 | ECflex 20T 36m 230V 700W | 36,0 | b |
| 088L6062 | ECflex 20T 43m 230V 835W | 43,0 | a |
| 088L6063 | ECflex 20T 50m 230V 970W | 50,0 | a |
| 088L6064 | ECflex 20T 56m 230V 1130W | 56,0 | a |
| 088L6065 | ECflex 20T 65m 230V 1275W | 65,0 | a |
| 088L6066 | ECflex 20T 70m 230V 1415W | 70,0 | a |
| 088L6067 | ECflex 20T 78m 230V 1565W | 78,0 | a |
| 088L6068 | ECflex 20T 86m 230V 1700W | 86,0 | a |
| 088L6069 | ECflex 20T 100m 230V 1975W | 100,0 | a |
| 088L6070 | ECflex 20T 112m 230V 2250W | 112,0 | a |
| 088L6071 | ECflex 20T 125m 230V 2530W | 125,0 | a |
| 088L6072 | ECflex 20T 148m 230V 2905W | 148,0 | a |
| 088L6073 | ECflex 10T 90m 230V 920W | 90,0 | a |
| 088L6074 | ECflex 10T 15m 230V 135W | 15,0 | d |
| 088L6075 | ECflex 10T 25m 230V 240W | 25,0 | c |
| 088L6076 | ECflex 10T 35m 230V 365W | 35,0 | b |
| 088L6077 | ECflex 10T 160m 230V 1575W | 160,0 | a |
| 088L6078 | ECflex 10T 180m 230V 1760W | 180,0 | a |
| 088L6079 | ECflex 10T 200m 230V 1990W | 200,0 | a |
| 088L6080 | ECflex 10T 210m 230V 2050W | 210,0 | a |
| 088L6081 | ECflex 18T 12,8m 230V 230W | 12,8 | d |
| 088L6082 | ECflex 18T 17,5m 230V 310W | 17,5 | c |
| 088L6083 | ECflex 18T 54m 230V 1005W | 54,0 | a |
| 088L6084 | ECflex 18T 170m 230V 3050W | 170,0 | a |
| 088L6100 | ECflex 10T 205W 230V 20m ECtemp Touch | 20,0 | c |
| 088L6101 | ECflex 10T 290W 230V 30m ECtemp Touch | 30,0 | b |
| 088L6102 | ECflex 10T 390W 230V 40m ECtemp Touch | 40,0 | b |
| 088L6103 | ECflex 10T 505W 230V 50m ECtemp Touch | 50,0 | b |

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| 088L6104 | ECflex 10T 600W 230V 60m ECtemp Touch | 60,0 | a |
| 088L6105 | ECflex 10T 795W 230V 80m ECtemp Touch | 80,0 | a |
| 088L6106 | ECflex 10T 990W 230V 100m ECtemp Touch | 100,0 | a |
| 088L6107 | ECflex 10T 1220W 230V 120m ECtemp Touch | 120,0 | a |
| 088L6108 | ECflex 10T 1410W 230V 140m ECtemp Touch | 140,0 | a |
| 088L6353 | ECflex 100T 1,1m ² 230V 120W | 7,9 | d |
| 088L6354 | ECflex 100T 1,6m ² 230V 165W | 10,9 | d |
| 088L6355 | ECflex 100T 2,5m ² 230V 240W | 16,9 | c |
| 088L6356 | ECflex 100T 3,6m ² 230V 355W | 24,4 | b |
| 088L6357 | ECflex 100T 4,3m ² 230V 445W | 28,9 | b |
| 088L6358 | ECflex 100T 5,6m ² 230V 550W | 37,9 | b |
| 088L6359 | ECflex 100T 6,5m ² 230V 660W | 43,9 | a |
| 088L6360 | ECflex 100T 7,7m ² 230V 780W | 51,4 | a |
| 088L6361 | ECflex 100T 9,0m ² 230V 900W | 60,4 | a |
| 088L6362 | ECflex 100T 11,0m ² 230V 1120W | 73,9 | a |
| 088L6363 | ECflex 100T 13,5m ² 230V 1350W | 90,4 | a |
| 088L6364 | ECflex 100T 14,9m ² 230V 1470W | 99,4 | a |
| 088L6365 | ECflex 100T 16,2m ² 230V 1630W | 108,4 | a |
| 088L6366 | ECflex 100T 18,2m ² 230V 1810W | 121,9 | a |
| 088L6367 | ECflex 100T 21,8m ² 230V 2170W | 145,9 | a |
| 088L6368 | ECflex 100T 24,3m ² 230V 2450W | 162,4 | a |
| 088L6370 | ECflex 75T 1,1m ² 230V 80W | 7,9 | d |
| 088L6371 | ECflex 75T 2,0m ² 230V 140W | 13,9 | d |
| 088L6372 | ECflex 75T 3,2m ² 230V 255W | 21,4 | c |
| 088L6373 | ECflex 75T 4,5m ² 230V 330W | 30,4 | c |
| 088L6374 | ECflex 75T 6,5m ² 230V 475W | 43,9 | b |
| 088L6375 | ECflex 75T 8,6m ² 230V 630W | 57,4 | a |
| 088L6376 | ECflex 75T 9,9m ² 230V 730W | 66,4 | a |
| 088L6377 | ECflex 75T 11,3m ² 230V 840W | 75,4 | a |
| 088L6378 | ECflex 75T 14,0m ² 230V 1060W | 93,4 | a |
| 088L6379 | ECflex 75T 16,2m ² 230V 1200W | 108,4 | a |
| 088L6380 | ECflex 75T 18,7m ² 230V 1415W | 124,9 | a |
| 088L6381 | ECflex 75T 20,9m ² 230V 1575W | 139,9 | a |
| 088L6382 | ECflex 75T 25,2m ² 230V 1880W | 168,4 | a |
| 088L6383 | ECflex 75T 29,3m ² 230V 2200W | 195,4 | a |
| 088L6385 | ECflex 50T 2,3m ² 230V 117W | 15,4 | d |
| 088L6386 | ECflex 50T 3,4m ² 230V 178W | 22,9 | c |
| 088L6387 | ECflex 50T 5,2m ² 230V 250W | 34,9 | b |
| 088L6388 | ECflex 50T 6,8m ² 230V 340W | 45,4 | b |
| 088L6389 | ECflex 50T 8,8m ² 230V 430W | 58,9 | b |
| 088L6390 | ECflex 50T 10,4m ² 230V 520W | 69,4 | a |

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|----------|--|-------|---|
| 088L6391 | ECflex 50T 11,9m ² 230V 610W | 79,9 | a |
| 088L6392 | ECflex 50T 13,7m ² 230V 690W | 91,9 | a |
| 088L6393 | ECflex 50T 17,1m ² 230V 865W | 114,4 | a |
| 088L6394 | ECflex 50T 19,8m ² 230V 985W | 132,4 | a |
| 088L6395 | ECflex 50T 23,0m ² 230V 1190W | 153,4 | a |
| 088L6396 | ECflex 50T 25,7m ² 230V 1285W | 171,4 | a |
| 140F1200 | DEVIflex 6T 30m 230V 180W | 30,0 | c |
| 140F1201 | DEVIflex 6T 40m 230V 250W | 40,0 | c |
| 140F1202 | DEVIflex 6T 50m 230V 310W | 50,0 | b |
| 140F1203 | DEVIflex 6T 60m 230V 345W | 60,0 | b |
| 140F1204 | DEVIflex 6T 70m 230V 415W | 70,0 | a |
| 140F1205 | DEVIflex 6T 80m 230V 500W | 80,0 | a |
| 140F1206 | DEVIflex 6T 90m 230V 540W | 90,0 | a |
| 140F1207 | DEVIflex 6T 100m 230V 635W | 100,0 | a |
| 140F1208 | DEVIflex 6T 115m 230V 720W | 115,0 | a |
| 140F1209 | DEVIflex 6T 129m 230V 770W | 129,0 | a |
| 140F1210 | DEVIflex 6T 140m 230V 870W | 140,0 | a |
| 140F1211 | DEVIflex 6T 160m 230V 915W | 160,0 | a |
| 140F1212 | DEVIflex 6T 180m 230V 1095W | 180,0 | a |
| 140F1213 | DEVIflex 6T 190m 230V 1160W | 190,0 | a |
| 140F1214 | DEVIflex 6T 200m 230V 1260W | 200,0 | a |
| 140F1215 | DEVIflex 10T 2m 230V 20W | 2,0 | e |
| 140F1216 | DEVIflex 10T 4m 230V 40W | 4,0 | e |
| 140F1217 | DEVIflex 10T 6m 230V 60W | 6,0 | d |
| 140F1218 | DEVIflex 10T 8m 230V 80W | 8,0 | d |
| 140F1219 | DEVIflex 10T 10m 230V 100W | 10,0 | d |
| 140F1220 | DEVIflex 10T 20m 230V 205W | 20,0 | c |
| 140F1221 | DEVIflex 10T 30m 230V 290W | 30,0 | b |
| 140F1222 | DEVIflex 10T 40m 230V 390W | 40,0 | b |
| 140F1223 | DEVIflex 10T 50m 230V 505W | 50,0 | b |
| 140F1224 | DEVIflex 10T 60m 230V 600W | 60,0 | a |
| 140F1225 | DEVIflex 10T 70m 230V 695W | 70,0 | a |
| 140F1226 | DEVIflex 10T 80m 230V 790W | 80,0 | a |
| 140F1227 | DEVIflex 10T 90m 230V 920W | 90,0 | a |
| 140F1228 | DEVIflex 10T 100m 230V 990W | 100,0 | a |
| 140F1229 | DEVIflex 10T 120m 230V 1220W | 120,0 | a |
| 140F1230 | DEVIflex 10T 140m 230V 1410W | 140,0 | a |
| 140F1231 | DEVIflex 10T 160m 230V 1575W | 160,0 | a |
| 140F1232 | DEVIflex 10T 180m 230V 1760W | 180,0 | a |
| 140F1233 | DEVIflex 10T 200m 230V 1990W | 200,0 | a |
| 140F1234 | DEVIflex 10T 210m 230V 2050W | 210,0 | a |



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|----------|---------------------------------------|-------|---|
| 140F1235 | DEVIflex 18T 7,3m 230V 130W | 7,3 | d |
| 140F1236 | DEVIflex 18T 10m 230V 180W | 10,0 | d |
| 140F1237 | DEVIflex 18T 15m 230V 270W | 15,0 | c |
| 140F1238 | DEVIflex 18T 22m 230V 395W | 22,0 | b |
| 140F1239 | DEVIflex 18T 29m 230V 535W | 29,0 | b |
| 140F1240 | DEVIflex 18T 34m 230V 615W | 34,0 | b |
| 140F1241 | DEVIflex 18T 37m 230V 680W | 37,0 | b |
| 140F1242 | DEVIflex 18T 44m 230V 820W | 44,0 | a |
| 140F1243 | DEVIflex 18T 52m 230V 935W | 52,0 | a |
| 140F1244 | DEVIflex 18T 59m 230V 1075W | 59,0 | a |
| 140F1245 | DEVIflex 18T 68m 230V 1220W | 68,0 | a |
| 140F1246 | DEVIflex 18T 74m 230V 1340W | 74,0 | a |
| 140F1247 | DEVIflex 18T 82m 230V 1485W | 82,0 | a |
| 140F1248 | DEVIflex 18T 90m 230V 1625W | 90,0 | a |
| 140F1249 | DEVIflex 18T 105m 230V 1880W | 105,0 | a |
| 140F1250 | DEVIflex 18T 118m 230V 2135W | 118,0 | a |
| 140F1251 | DEVIflex 18T 131m 230V 2420W | 131,0 | a |
| 140F1252 | DEVIflex 18T 155m 230V 2775W | 155,0 | a |
| 140F1271 | DEVIflex 30T 45m 230V 1405W | 45,0 | a |
| 140F1272 | DEVIflex 30T 90m 230V 2800W | 90,0 | a |
| 140F1400 | DEVIflex 18T 12,8m 230V 230W | 12,8 | d |
| 140F1401 | DEVIflex 18T 17,5m 230V 310W | 17,5 | c |
| 140F1402 | DEVIflex 18T 170m 230V 3050W | 170,0 | a |
| 140F1407 | DEVIflex 10T 15m 230V 135W | 15,0 | d |
| 140F1408 | DEVIflex 10T 25m 230V 240W | 25,0 | c |
| 140F1409 | DEVIflex 10T 35m 230V 365W | 35,0 | b |
| 140F1410 | DEVIflex 18T 54m 230V 1005W | 54,0 | a |
| 140F9999 | DEVIflex/DEVIsafe Cable Special Order | 1,0 | a |

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The sales codes of all EC & DeviSAFE cables covered in this EPD, are presented in table 15.

Table 15: Safe sales codes, covered by this EPD

| DeviSAFE | | | |
|------------|---|------------|-------------|
| Sales code | Product description | Length [m] | Combination |
| 088L2170 | ECsafe 20T 6m 230V 125W | 6,0 | d |
| 088L2171 | ECsafe 20T 12m 230V 250W | 12,0 | e |
| 088L2172 | ECsafe 20T 17m 230V 335W | 17,0 | c |
| 088L2173 | ECsafe 20T 25m 230V 505W | 25,0 | b |
| 088L2174 | ECsafe 20T 33m 230V 675W | 33,0 | b |
| 088L2175 | ECsafe 20T 42m 230V 830W | 42,0 | a |
| 088L2177 | ECsafe 20T 60m 230V 1200W | 60,0 | a |
| 088L2178 | ECsafe 20T 68m 230V 1370W | 68,0 | a |
| 088L2179 | ECsafe 20T 85m 230V 1700W | 85,0 | a |
| 088L2180 | ECsafe 20T 101m 230V 2040W | 101,0 | a |
| 088L2181 | ECsafe 20T 118m 230V 2360W | 118,0 | a |
| 088L2182 | ECsafe 20T 135m 230V 2685W | 135,0 | a |
| 088L2183 | ECsafe 20T 152m 230V 3025W | 152,0 | a |
| 088L2184 | ECsafe 20T 170m 230V 3385W | 170,0 | a |
| 088L6300 | ECfreeze 7.5T 35m 400V 260W | 35,0 | e |
| 088L6301 | ECfreeze 7.5T 48m 400V 355W | 48,0 | c |
| 088L6302 | ECfreeze 7.5T 71m 400V 540W | 71,0 | b |
| 088L6303 | ECfreeze 7.5T 118m 400V 890W | 118,0 | a |
| 088L6305 | ECfreeze 7.5T 170m 400V 1280W | 170,0 | a |
| 088L6306 | ECfreeze 7.5T 217m 400V 1635W | 217,0 | a |
| 088L6307 | ECfreeze 7.5T 241m 400V 1810W | 241,0 | a |
| 088L6308 | ECfreeze 7.5T 288m 400V 2160W | 288,0 | a |
| 088L6309 | ECfreeze 7.5T 382m 400V 2870W | 382,0 | a |
| 088L6310 | ECfreeze 7.5T 431m 400V 3230W | 431,0 | a |
| 088L6311 | ECfreeze 7.5T 482m 400V 3610W | 482,0 | a |
| 088L6451 | ECsafe 100T 4,2m ² 230V 445W | 28,4 | b |
| 088L6452 | ECsafe 100T 5,7m ² 230V 580W | 38,4 | b |
| 088L6453 | ECsafe 100T 7,2m ² 230V 720W | 48,4 | a |

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|----------|--|-------|---|
| 088L6455 | ECsafe 100T 10,5m ² 230V 1020W | 70,4 | a |
| 088L6456 | ECsafe 100T 11,7m ² 230V 1190W | 78,4 | a |
| 088L6457 | ECsafe 100T 13,2m ² 230V 1330W | 88,4 | a |
| 088L6458 | ECsafe 100T 14,7m ² 230V 1465W | 98,4 | a |
| 088L6459 | ECsafe 100T 17,4m ² 230V 1770W | 116,4 | a |
| 088L6460 | ECsafe 100T 20,4m ² 230V 2040W | 136,4 | a |
| 088L6461 | ECsafe 100T 23,4m ² 230V 2320W | 156,4 | a |
| 088L6462 | ECsafe 100T 26,1m ² 230V 2670W | 174,4 | a |
| 088L6463 | ECsafe 100T 29,4m ² 230V 2930W | 196,4 | a |
| 088L6466 | ECsafe 100T 5,1m ² 400V 500W | 34,8 | c |
| 088L6467 | ECsafe 100T 7,5m ² 400V 760W | 50,8 | b |
| 088L6468 | ECsafe 100T 9,9m ² 400V 1020W | 66,8 | b |
| 088L6469 | ECsafe 100T 12,6m ² 400V 1250W | 84,8 | a |
| 088L6471 | ECsafe 100T 18,0m ² 400V 1810W | 120,8 | a |
| 088L6472 | ECsafe 100T 20,4m ² 400V 2070W | 136,8 | a |
| 088L6473 | ECsafe 100T 23,1m ² 400V 2300W | 154,8 | a |
| 088L6474 | ECsafe 100T 25,5m ² 400V 2560W | 170,8 | a |
| 088L6475 | ECsafe 100T 30,6m ² 400V 3050W | 204,8 | a |
| 140F1199 | DEVIsafe 20T 76m 230V 1545W | 76,0 | a |
| 140F1273 | DEVIsafe 20T 6m 230V 125W | 6,0 | d |
| 140F1274 | DEVIsafe 20T 12m 230V 250W | 12,0 | e |
| 140F1275 | DEVIsafe 20T 17m 230V 335W | 17,0 | c |
| 140F1276 | DEVIsafe 20T 25m 230V 505W | 25,0 | b |
| 140F1277 | DEVIsafe 20T 33m 230V 675W | 33,0 | b |
| 140F1278 | DEVIsafe 20T 42m 230V 830W | 42,0 | a |
| 140F1280 | DEVIsafe 20T 60m 230V 1200W | 60,0 | a |
| 140F1281 | DEVIsafe 20T 68m 230V 1370W | 68,0 | a |
| 140F1282 | DEVIsafe 20T 85m 230V 1700W | 85,0 | a |
| 140F1283 | DEVIsafe 20T 101m 230V 2040W | 101,0 | a |
| 140F1284 | DEVIsafe 20T 118m 230V 2360W | 118,0 | a |
| 140F1285 | DEVIsafe 20T 135m 230V 2685W | 135,0 | a |
| 140F1286 | DEVIsafe 20T 152m 230V 3025W | 152,0 | a |



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|----------|----------------------------------|-------|---|
| 140F1287 | DEVIsafe 20T 170m 230V 3385W | 170,0 | a |
| 088L2185 | ECsafe 20T 194m 230V 3895W | 194,0 | a |
| 088L6312 | ECfreeze 7.5T 552m 400V 4140W | 552,0 | a |
| 140F1288 | DEVIsafe 20T 194m 230V 3895W | 194,0 | a |

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Danfoss Climate Solutions

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