

Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v3.5.64



Product: 3064800 - PE Pipe Cable GN 110 L=6 SRN DVK T
 Unit: 1 piece
 Manufacturer: Wavin - SE - Eskilstuna

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 20-06-2022
 End of validity: 20-06-2027
 Verifier: Harry van Ewijk - SGS Search



Wavin offers double-walled cable conduits in several diameters and in both waterproof and non-waterproof versions. The corrugated outer wall ensures a high ring stiffness, while the smooth inner wall makes the pipes optimal for cable pulling.

This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - SE - Eskilstuna (2020). (☑ = module declared, MND = module not declared).

| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D | | | | | |
|--|----|----|-----|-----|---|-----|-----|-----|-----|-----|-----|---|----|----|----|---|--|--|--|--|--|
| ☑ | ☑ | ☑ | MND | MND | MND | MND | MND | MND | MND | MND | MND | MND | ☑ | ☑ | ☑ | ☑ | | | | | |
| Product stage | | | | | Use stage | | | | | | | End-of-Life stage | | | | | | | | | |
| A1 Raw material supply A2 Transport A3 Manufacturing | | | | | B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment B6 Operational energy use B7 Operational water use | | | | | | | C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal | | | | | | | | | |
| Construction process stage | | | | | Benefits and loads beyond the system boundaries | | | | | | | | | | | | | | | | |
| A4 Transport gate to site A5 Assembly / Construction installation process | | | | | D Reuse- Recovery- Recycling- potential | | | | | | | | | | | | | | | | |

Environmental impacts and parameters

GWP-total = EF Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF Climate Change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PERT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **PET** = Total energy [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

Statement of Confidentiality

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Results

| Environmental impact | Unit | A1 | A2 | A3 | A1-A3 | C2 | C3 | C4 | D | Total |
|----------------------|--------------|---------|----------|----------|---------|----------|----------|----------|----------|---------|
| GWP-total | kg CO2 eq | 8.28E+0 | 6.49E-1 | 2.71E-1 | 9.20E+0 | 1.01E-1 | 3.64E+0 | 5.59E-2 | -5.28E+0 | 7.71E+0 |
| GWP-f | kg CO2 eq | 8.25E+0 | 6.48E-1 | 1.96E-1 | 9.09E+0 | 1.01E-1 | 3.64E+0 | 5.59E-2 | -5.27E+0 | 7.62E+0 |
| GWP-b | kg CO2 eq | 3.05E-2 | -4.16E-5 | 5.16E-2 | 8.21E-2 | 6.13E-5 | -4.06E-3 | 4.20E-5 | -1.89E-2 | 5.93E-2 |
| GWP-luluc | kg CO2 eq | 2.89E-3 | 3.82E-4 | 2.28E-2 | 2.61E-2 | 3.57E-5 | 5.70E-4 | 8.21E-7 | -1.13E-3 | 2.56E-2 |
| ODP | kg CFC11 eq | 2.41E-7 | 1.34E-7 | 2.22E-8 | 3.98E-7 | 2.33E-8 | 7.50E-8 | 1.20E-9 | -2.63E-7 | 2.35E-7 |
| AP | mol H+ eq | 3.09E-2 | 1.57E-2 | 1.66E-3 | 4.82E-2 | 5.75E-4 | 3.17E-3 | 2.87E-5 | -1.42E-2 | 3.78E-2 |
| EP-fw | kg P eq | 1.54E-4 | 3.87E-6 | 3.62E-6 | 1.61E-4 | 8.31E-7 | 1.65E-5 | 3.76E-8 | -6.40E-5 | 1.14E-4 |
| EP-m | kg N eq | 5.26E-3 | 3.98E-3 | 4.93E-4 | 9.73E-3 | 2.06E-4 | 9.29E-4 | 2.03E-5 | -2.62E-3 | 8.27E-3 |
| EP-T | mol N eq | 5.96E-2 | 4.42E-2 | 5.40E-3 | 1.09E-1 | 2.27E-3 | 1.02E-2 | 1.16E-4 | -2.91E-2 | 9.27E-2 |
| POCP | kg NMVOC eq | 2.79E-2 | 1.16E-2 | 1.50E-3 | 4.10E-2 | 6.49E-4 | 3.22E-3 | 4.55E-5 | -1.36E-2 | 3.13E-2 |
| ADP-mm | kg Sb eq | 1.37E-4 | 8.45E-6 | 5.90E-6 | 1.51E-4 | 2.61E-6 | 1.24E-5 | 2.89E-8 | -3.34E-5 | 1.33E-4 |
| ADP-f | MJ | 2.81E+2 | 8.75E+0 | 1.95E+0 | 2.92E+2 | 1.55E+0 | 9.92E+0 | 8.75E-2 | -1.55E+2 | 1.49E+2 |
| WDP | m3 depriv. | 6.50E+0 | 1.92E-2 | 1.26E+0 | 7.78E+0 | 4.76E-3 | 1.95E-1 | 4.57E-4 | -2.95E+0 | 5.03E+0 |
| PM | disease inc. | 2.61E-7 | 3.19E-8 | 2.80E-8 | 3.20E-7 | 9.12E-9 | 5.17E-8 | 6.01E-10 | -1.13E-7 | 2.69E-7 |
| IR | kBq U-235 eq | 2.03E-1 | 3.73E-2 | 5.80E-3 | 2.46E-1 | 6.78E-3 | 3.00E-2 | 4.07E-4 | -9.18E-2 | 1.91E-1 |
| ETP-fw | CTUe | 5.63E+1 | 6.39E+0 | 5.44E+0 | 6.82E+1 | 1.26E+0 | 1.14E+1 | 7.77E-2 | -2.31E+1 | 5.78E+1 |
| HTP-c | CTUh | 2.91E-9 | 3.41E-10 | 2.15E-10 | 3.47E-9 | 4.48E-11 | 1.40E-9 | 2.17E-12 | -1.06E-9 | 3.85E-9 |
| HTP-nc | CTUh | 6.10E-8 | 5.91E-9 | 5.85E-9 | 7.28E-8 | 1.50E-9 | 1.72E-8 | 4.94E-11 | -1.86E-8 | 7.30E-8 |
| SQP | Pt | 1.30E+1 | 3.42E+0 | 2.56E-1 | 1.67E+1 | 1.33E+0 | 7.93E+0 | 2.24E-1 | -4.93E+0 | 2.12E+1 |
| Resource use | Unit | A1 | A2 | A3 | A1-A3 | C2 | C3 | C4 | D | Total |
| PERE | MJ | 5.21E+0 | 7.66E-2 | 1.23E+1 | 1.76E+1 | 2.22E-2 | 4.89E-1 | 3.43E-3 | -2.19E+0 | 1.59E+1 |
| PERM | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PERT | MJ | 5.21E+0 | 7.66E-2 | 1.23E+1 | 1.76E+1 | 2.22E-2 | 4.89E-1 | 3.43E-3 | -2.19E+0 | 1.59E+1 |
| PENRE | MJ | 3.02E+2 | 9.29E+0 | 2.07E+0 | 3.13E+2 | 1.65E+0 | 1.06E+1 | 9.29E-2 | -1.67E+2 | 1.58E+2 |
| PENRM | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PENRT | MJ | 3.02E+2 | 9.29E+0 | 2.07E+0 | 3.13E+2 | 1.65E+0 | 1.06E+1 | 9.29E-2 | -1.67E+2 | 1.58E+2 |
| PET | MJ | 3.07E+2 | 9.37E+0 | 1.44E+1 | 3.31E+2 | 1.67E+0 | 1.11E+1 | 9.63E-2 | -1.69E+2 | 1.74E+2 |
| SM | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RSF | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NRSF | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FW | m3 | 1.02E-1 | 6.69E-4 | 2.99E-2 | 1.33E-1 | 1.75E-4 | 5.82E-3 | 1.08E-4 | -4.52E-2 | 9.39E-2 |

| Output flows and waste categories | Unit | A1 | A2 | A3 | A1-A3 | C2 | C3 | C4 | D | Total |
|-----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|----------|---------|
| HWD | kg | 4.69E-5 | 1.29E-5 | 2.97E-6 | 6.28E-5 | 3.97E-6 | 1.63E-5 | 1.06E-7 | -5.14E-5 | 3.18E-5 |
| NHWD | kg | 3.67E-1 | 2.07E-1 | 9.10E-3 | 5.83E-1 | 9.61E-2 | 5.02E-1 | 3.85E-1 | -1.27E-1 | 1.44E+0 |
| RWD | kg | 1.83E-4 | 5.97E-5 | 8.25E-6 | 2.51E-4 | 1.05E-5 | 3.80E-5 | 5.72E-7 | -8.59E-5 | 2.14E-4 |
| CRU | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MFR | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MER | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EE | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EET | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EEE | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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