Environmental Profile

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

Ecochain v3.5.64

Product:	3065017 - PE Pipe Cable BK/YL 110 L=100 SRS
Unit:	1 piece
Manufacturer:	Wavin - SE - Eskilstuna

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.

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

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

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
C4 Disposal

Benefits and loads beyond the system boundaries

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

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	4.33E+2	3.67E+1	1.54E+1	4.85E+2	5.66E+0	1.89E+2	3.13E+0	-2.84E+2	3.99E+2
GWP-f	kg CO2 eq	4.35E+2	3.67E+1	1.12E+1	4.83E+2	5.65E+0	1.85E+2	3.13E+0	-2.83E+2	3.93E+2
GWP-b	kg CO2 eq	-2.10E+0	-2.48E-3	2.94E+0	8.43E-1	3.43E-3	4.14E+0	2.35E-3	-1.07E+0	3.92E+0
GWP-luluc	kg CO2 eq	1.38E-1	2.17E-2	1.30E+0	1.46E+0	2.00E-3	3.18E-2	4.50E-5	-6.49E-2	1.43E+0
ODP	kg CFC11 eq	1.13E-5	7.59E-6	1.27E-6	2.02E-5	1.30E-6	4.14E-6	6.68E-8	-1.36E-5	1.21E-5
AP	mol H+ eq	1.58E+0	8.92E-1	9.48E-2	2.57E+0	3.22E-2	1.74E-1	1.60E-3	-7.85E-1	1.99E+0
EP-fw	kg P eq	7.49E-3	2.18E-4	2.07E-4	7.92E-3	4.65E-5	9.17E-4	2.07E-6	-3.53E-3	5.36E-3
EP-m	kg N eq	2.71E-1	2.26E-1	2.81E-2	5.25E-1	1.15E-2	5.08E-2	1.13E-3	-1.44E-1	4.44E-1
EP-T	mol N eq	3.06E+0	2.51E+0	3.08E-1	5.88E+0	1.27E-1	5.59E-1	6.48E-3	-1.60E+0	4.97E+0
POCP	kg NMVOC eq	1.46E+0	6.57E-1	8.56E-2	2.20E+0	3.63E-2	1.77E-1	2.54E-3	-7.44E-1	1.67E+0
ADP-mm	kg Sb eq	5.49E-3	4.75E-4	3.37E-4	6.30E-3	1.46E-4	6.88E-4	1.60E-6	-1.83E-3	5.31E-3
ADP-f	MJ	1.53E+4	4.95E+2	1.11E+2	1.59E+4	8.68E+1	5.52E+2	4.88E+0	-8.48E+3	8.03E+3
WDP	m3 depriv.	3.47E+2	1.08E+0	7.17E+1	4.20E+2	2.66E-1	1.08E+1	2.26E-2	-1.65E+2	2.66E+2
PM	disease inc.	1.34E-5	1.80E-6	1.60E-6	1.67E-5	5.10E-7	2.86E-6	3.35E-8	-6.23E-6	1.39E-5
IR	kBq U-235 eq	1.03E+1	2.11E+0	3.31E-1	1.27E+1	3.79E-1	1.66E+0	2.27E-2	-5.12E+0	9.68E+0
ETP-fw	CTUe	2.54E+3	3.61E+2	3.10E+2	3.21E+3	7.05E+1	6.26E+2	4.30E+0	-1.25E+3	2.66E+3
HTP-c	CTUh	1.24E-7	1.93E-8	1.22E-8	1.56E-7	2.51E-9	7.47E-8	1.19E-10	-5.89E-8	1.74E-7
HTP-nc	CTUh	2.79E-6	3.33E-7	3.34E-7	3.45E-6	8.40E-8	9.40E-7	2.74E-9	-1.32E-6	3.16E-6
SQP	Pt	9.84E+2	1.92E+2	1.46E+1	1.19E+3	7.43E+1	4.41E+2	1.25E+1	-3.54E+2	1.36E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.18E+2	4.32E+0	7.01E+2	1.02E+3	1.25E+0	2.72E+1	1.93E-1	-1.40E+2	9.13E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.18E+2	4.32E+0	7.01E+2	1.02E+3	1.25E+0	2.72E+1	1.93E-1	-1.40E+2	9.13E+2
PENRE	MJ	1.64E+4	5.26E+2	1.18E+2	1.70E+4	9.22E+1	5.88E+2	5.18E+0	-9.15E+3	8.55E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.64E+4	5.26E+2	1.18E+2	1.70E+4	9.22E+1	5.88E+2	5.18E+0	-9.15E+3	8.55E+3
PET	MJ	1.67E+4	5.30E+2	8.20E+2	1.80E+4	9.34E+1	6.15E+2	5.37E+0	-9.29E+3	9.46E+3
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	5.26E+0	3.77E-2	1.70E+0	7.00E+0	9.82E-3	3.19E-1	6.03E-3	-2.52E+0	4.81E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.19E-3	7.28E-4	1.69E-4	3.08E-3	2.22E-4	8.99E-4	5.86E-6	-2.50E-3	1.71E-3
NHWD	kg	1.66E+1	1.16E+1	5.19E-1	2.87E+1	5.38E+0	2.72E+1	2.15E+1	-6.95E+0	7.58E+1
RWD	kg	9.21E-3	3.38E-3	4.71E-4	1.31E-2	5.90E-4	2.11E-3	3.19E-5	-4.76E-3	1.10E-2
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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