Environmental Profile

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

Ecochain v3.5.64

Product:	3064836 - PE Pipe Cable YL 110 L=50 KR
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	6.05E+1	5.01E+0	2.10E+0	6.76E+1	7.78E-1	2.53E+1	4.30E-1	-3.91E+1	5.50E+1
GWP-f	kg CO2 eq	6.02E+1	5.01E+0	1.53E+0	6.67E+1	7.78E-1	2.53E+1	4.30E-1	-3.90E+1	5.43E+1
GWP-b	kg CO2 eq	3.15E-1	-3.35E-4	4.01E-1	7.16E-1	4.72E-4	-3.14E-2	3.23E-4	-1.45E-1	5.40E-1
GWP-luluc	kg CO2 eq	1.94E-2	2.96E-3	1.77E-1	2.00E-1	2.75E-4	4.38E-3	6.26E-6	-8.71E-3	1.96E-1
ODP	kg CFC11 eq	1.64E-6	1.04E-6	1.73E-7	2.84E-6	1.79E-7	5.71E-7	9.20E-9	-1.86E-6	1.75E-6
AP	mol H+ eq	2.21E-1	1.22E-1	1.29E-2	3.56E-1	4.43E-3	2.40E-2	2.20E-4	-1.08E-1	2.76E-1
EP-fw	kg P eq	1.07E-3	2.98E-5	2.82E-5	1.12E-3	6.40E-6	1.26E-4	2.87E-7	-4.89E-4	7.68E-4
EP-m	kg N eq	3.76E-2	3.08E-2	3.83E-3	7.23E-2	1.59E-3	6.98E-3	1.55E-4	-1.98E-2	6.12E-2
EP-T	mol N eq	4.26E-1	3.42E-1	4.20E-2	8.11E-1	1.75E-2	7.68E-2	8.91E-4	-2.20E-1	6.86E-1
POCP	kg NMVOC eq	2.02E-1	8.96E-2	1.17E-2	3.03E-1	4.99E-3	2.43E-2	3.49E-4	-1.03E-1	2.30E-1
ADP-mm	kg Sb eq	8.24E-4	6.49E-5	4.59E-5	9.35E-4	2.01E-5	9.50E-5	2.21E-7	-2.51E-4	7.99E-4
ADP-f	MJ	2.09E+3	6.76E+1	1.52E+1	2.17E+3	1.19E+1	7.60E+1	6.72E-1	-1.17E+3	1.09E+3
WDP	m3 depriv.	4.78E+1	1.48E-1	9.77E+0	5.77E+1	3.66E-2	1.49E+0	3.36E-3	-2.27E+1	3.66E+1
PM	disease inc.	1.86E-6	2.45E-7	2.18E-7	2.32E-6	7.02E-8	3.95E-7	4.62E-9	-8.60E-7	1.93E-6
IR	kBq U-235 eq	1.44E+0	2.87E-1	4.51E-2	1.77E+0	5.22E-2	2.29E-1	3.13E-3	-6.99E-1	1.36E+0
ETP-fw	CTUe	3.76E+2	4.93E+1	4.23E+1	4.68E+2	9.69E+0	8.64E+1	5.92E-1	-1.74E+2	3.90E+2
HTP-c	CTUh	2.04E-8	2.64E-9	1.67E-9	2.47E-8	3.45E-10	1.04E-8	1.65E-11	-8.05E-9	2.74E-8
HTP-nc	CTUh	4.28E-7	4.55E-8	4.55E-8	5.19E-7	1.16E-8	1.30E-7	3.78E-10	-1.49E-7	5.12E-7
SQP	Pt	8.42E+1	2.62E+1	1.99E+0	1.12E+2	1.02E+1	6.08E+1	1.72E+0	-3.71E+1	1.48E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.63E+1	5.90E-1	9.56E+1	1.33E+2	1.71E-1	3.75E+0	2.64E-2	-1.68E+1	1.20E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.63E+1	5.90E-1	9.56E+1	1.33E+2	1.71E-1	3.75E+0	2.64E-2	-1.68E+1	1.20E+2
PENRE	MJ	2.24E+3	7.17E+1	1.61E+1	2.33E+3	1.27E+1	8.09E+1	7.13E-1	-1.26E+3	1.17E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.24E+3	7.17E+1	1.61E+1	2.33E+3	1.27E+1	8.09E+1	7.13E-1	-1.26E+3	1.17E+3
PET	MJ	2.28E+3	7.23E+1	1.12E+2	2.46E+3	1.28E+1	8.47E+1	7.39E-1	-1.27E+3	1.29E+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	7.31E-1	5.14E-3	2.32E-1	9.68E-1	1.35E-3	4.38E-2	8.29E-4	-3.46E-1	6.68E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.29E-4	9.95E-5	2.31E-5	4.51E-4	3.05E-5	1.24E-4	8.09E-7	-3.60E-4	2.47E-4
NHWD	kg	2.49E+0	1.58E+0	7.08E-2	4.14E+0	7.40E-1	3.74E+0	2.96E+0	-9.65E-1	1.06E+1
RWD	kg	1.29E-3	4.61E-4	6.41E-5	1.82E-3	8.12E-5	2.90E-4	4.39E-6	-6.50E-4	1.54E-3
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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