Environmental Profile

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

Ecochain v3.5.64

Product:	3065014 - PE Pipe Cable BK/YL 75 L=50 SRE-P
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	1.44E+2	1.24E+1	5.29E+0	1.61E+2	1.90E+0	6.68E+1	1.05E+0	-9.58E+1	1.35E+2
GWP-f	kg CO2 eq	1.47E+2	1.24E+1	3.84E+0	1.63E+2	1.90E+0	6.25E+1	1.05E+0	-9.54E+1	1.33E+2
GWP-b	kg CO2 eq	-3.61E+0	-8.24E-4	1.01E+0	-2.60E+0	1.15E-3	4.29E+0	7.91E-4	-3.60E-1	1.33E+0
GWP-luluc	kg CO2 eq	4.86E-2	7.30E-3	4.46E-1	5.02E-1	6.73E-4	1.07E-2	1.51E-5	-2.23E-2	4.91E-1
ODP	kg CFC11 eq	3.90E-6	2.56E-6	4.35E-7	6.89E-6	4.38E-7	1.40E-6	2.25E-8	-4.61E-6	4.14E-6
AP	mol H+ eq	5.37E-1	3.00E-1	3.25E-2	8.70E-1	1.08E-2	5.89E-2	5.36E-4	-2.65E-1	6.75E-1
EP-fw	kg P eq	2.56E-3	7.35E-5	7.08E-5	2.71E-3	1.56E-5	3.09E-4	6.97E-7	-1.19E-3	1.84E-3
EP-m	kg N eq	9.24E-2	7.60E-2	9.63E-3	1.78E-1	3.87E-3	1.72E-2	3.79E-4	-4.88E-2	1.51E-1
EP-T	mol N eq	1.04E+0	8.45E-1	1.06E-1	2.00E+0	4.27E-2	1.90E-1	2.18E-3	-5.45E-1	1.68E+0
POCP	kg NMVOC eq	4.95E-1	2.21E-1	2.94E-2	7.46E-1	1.22E-2	5.98E-2	8.53E-4	-2.51E-1	5.67E-1
ADP-mm	kg Sb eq	1.87E-3	1.60E-4	1.15E-4	2.15E-3	4.92E-5	2.32E-4	5.38E-7	-6.16E-4	1.81E-3
ADP-f	MJ	5.15E+3	1.67E+2	3.81E+1	5.36E+3	2.92E+1	1.86E+2	1.64E+0	-2.86E+3	2.72E+3
WDP	m3 depriv.	1.17E+2	3.65E-1	2.46E+1	1.42E+2	8.96E-2	3.65E+0	7.59E-3	-5.54E+1	9.03E+1
PM	disease inc.	4.66E-6	6.05E-7	5.48E-7	5.81E-6	1.72E-7	9.67E-7	1.13E-8	-2.12E-6	4.85E-6
IR	kBq U-235 eq	3.51E+0	7.10E-1	1.13E-1	4.34E+0	1.28E-1	5.60E-1	7.65E-3	-1.73E+0	3.31E+0
ETP-fw	CTUe	8.76E+2	1.22E+2	1.06E+2	1.10E+3	2.37E+1	2.11E+2	1.45E+0	-4.32E+2	9.08E+2
HTP-c	CTUh	4.32E-8	6.50E-9	4.20E-9	5.39E-8	8.43E-10	2.53E-8	3.99E-11	-2.00E-8	6.01E-8
HTP-nc	CTUh	9.54E-7	1.12E-7	1.14E-7	1.18E-6	2.82E-8	3.17E-7	9.20E-10	-4.49E-7	1.08E-6
SQP	Pt	5.97E+2	6.47E+1	5.01E+0	6.67E+2	2.50E+1	1.48E+2	4.21E+0	-1.75E+2	6.69E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.47E+2	1.46E+0	2.41E+2	3.89E+2	4.19E-1	9.16E+0	6.49E-2	-5.83E+1	3.40E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.47E+2	1.46E+0	2.41E+2	3.89E+2	4.19E-1	9.16E+0	6.49E-2	-5.83E+1	3.40E+2
PENRE	MJ	5.53E+3	1.77E+2	4.05E+1	5.74E+3	3.10E+1	1.98E+2	1.74E+0	-3.08E+3	2.89E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.53E+3	1.77E+2	4.05E+1	5.74E+3	3.10E+1	1.98E+2	1.74E+0	-3.08E+3	2.89E+3
PET	MJ	5.67E+3	1.78E+2	2.81E+2	6.13E+3	3.14E+1	2.07E+2	1.81E+0	-3.14E+3	3.23E+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	1.78E+0	1.27E-2	5.84E-1	2.38E+0	3.30E-3	1.08E-1	2.03E-3	-8.48E-1	1.64E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.67E-4	2.46E-4	5.81E-5	1.07E-3	7.46E-5	3.03E-4	1.97E-6	-8.47E-4	6.03E-4
NHWD	kg	5.78E+0	3.91E+0	1.78E-1	9.86E+0	1.81E+0	9.22E+0	7.23E+0	-2.36E+0	2.58E+1
RWD	kg	3.15E-3	1.14E-3	1.61E-4	4.45E-3	1.98E-4	7.10E-4	1.07E-5	-1.61E-3	3.76E-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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