

Environmental Profile

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

Ecochain v3.5.64



Product: 3065007 - PE Pipe Cable BK/YL 75 L=250 SRS
 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

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 non-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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	4.92E+2	4.21E+1	1.81E+1	5.52E+2	6.48E+0	2.21E+2	3.59E+0	-3.25E+2	4.58E+2
GWP-f	kg CO2 eq	4.99E+2	4.21E+1	1.31E+1	5.54E+2	6.48E+0	2.11E+2	3.59E+0	-3.24E+2	4.51E+2
GWP-b	kg CO2 eq	-7.19E+0	-2.82E-3	3.46E+0	-3.74E+0	3.93E-3	9.53E+0	2.69E-3	-1.23E+0	4.57E+0
GWP-luluc	kg CO2 eq	1.61E-1	2.49E-2	1.53E+0	1.71E+0	2.29E-3	3.64E-2	5.15E-5	-7.51E-2	1.68E+0
ODP	kg CFC11 eq	1.31E-5	8.70E-6	1.49E-6	2.33E-5	1.49E-6	4.75E-6	7.65E-8	-1.56E-5	1.40E-5
AP	mol H+ eq	1.82E+0	1.02E+0	1.11E-1	2.95E+0	3.69E-2	2.00E-1	1.83E-3	-9.01E-1	2.29E+0
EP-fw	kg P eq	8.62E-3	2.50E-4	2.42E-4	9.11E-3	5.33E-5	1.05E-3	2.37E-6	-4.05E-3	6.17E-3
EP-m	kg N eq	3.11E-1	2.59E-1	3.30E-2	6.03E-1	1.32E-2	5.84E-2	1.29E-3	-1.65E-1	5.11E-1
EP-T	mol N eq	3.52E+0	2.88E+0	3.62E-1	6.76E+0	1.45E-1	6.42E-1	7.42E-3	-1.84E+0	5.71E+0
POCP	kg NMVOC eq	1.67E+0	7.53E-1	1.00E-1	2.53E+0	4.16E-2	2.03E-1	2.91E-3	-8.54E-1	1.92E+0
ADP-mm	kg Sb eq	6.34E-3	5.45E-4	3.95E-4	7.28E-3	1.68E-4	7.89E-4	1.83E-6	-2.10E-3	6.15E-3
ADP-f	MJ	1.75E+4	5.67E+2	1.31E+2	1.82E+4	9.94E+1	6.32E+2	5.59E+0	-9.72E+3	9.20E+3
WDP	m3 depriv.	3.97E+2	1.24E+0	8.41E+1	4.83E+2	3.05E-1	1.24E+1	2.58E-2	-1.89E+2	3.07E+2
PM	disease inc.	1.55E-5	2.06E-6	1.88E-6	1.95E-5	5.85E-7	3.28E-6	3.84E-8	-7.17E-6	1.62E-5
IR	kBq U-235 eq	1.18E+1	2.41E+0	3.88E-1	1.46E+1	4.34E-1	1.91E+0	2.60E-2	-5.87E+0	1.11E+1
ETP-fw	CTUe	2.93E+3	4.14E+2	3.64E+2	3.71E+3	8.07E+1	7.17E+2	4.93E+0	-1.45E+3	3.06E+3
HTP-c	CTUh	1.44E-7	2.21E-8	1.44E-8	1.81E-7	2.87E-9	8.58E-8	1.36E-10	-6.77E-8	2.02E-7
HTP-nc	CTUh	3.21E-6	3.82E-7	3.92E-7	3.99E-6	9.62E-8	1.08E-6	3.13E-9	-1.52E-6	3.64E-6
SQP	Pt	1.56E+3	2.20E+2	1.72E+1	1.80E+3	8.50E+1	5.05E+2	1.43E+1	-4.98E+2	1.91E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.29E+2	4.95E+0	8.23E+2	1.26E+3	1.43E+0	3.12E+1	2.21E-1	-1.79E+2	1.11E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.29E+2	4.95E+0	8.23E+2	1.26E+3	1.43E+0	3.12E+1	2.21E-1	-1.79E+2	1.11E+3
PENRE	MJ	1.88E+4	6.02E+2	1.39E+2	1.95E+4	1.06E+2	6.73E+2	5.93E+0	-1.05E+4	9.81E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.88E+4	6.02E+2	1.39E+2	1.95E+4	1.06E+2	6.73E+2	5.93E+0	-1.05E+4	9.81E+3
PET	MJ	1.92E+4	6.07E+2	9.62E+2	2.08E+4	1.07E+2	7.05E+2	6.15E+0	-1.07E+4	1.09E+4
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	6.03E+0	4.32E-2	2.00E+0	8.07E+0	1.12E-2	3.66E-1	6.91E-3	-2.88E+0	5.57E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.55E-3	8.35E-4	1.99E-4	3.58E-3	2.54E-4	1.03E-3	6.71E-6	-2.86E-3	2.01E-3
NHWD	kg	1.93E+1	1.33E+1	6.09E-1	3.32E+1	6.16E+0	3.12E+1	2.46E+1	-7.99E+0	8.72E+1
RWD	kg	1.06E-2	3.87E-3	5.52E-4	1.50E-2	6.76E-4	2.41E-3	3.66E-5	-5.46E-3	1.27E-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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