

Environmental Profile

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

Ecochain v3.5.64



Product: 3064830 - PE Pipe Cable Corr. YL 50 L=50 w/thread
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					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	1.86E+1	1.50E+0	6.19E-1	2.07E+1	2.33E-1	7.81E+0	1.29E-1	-1.18E+1	1.71E+1
GWP-f	kg CO2 eq	1.85E+1	1.50E+0	4.49E-1	2.05E+1	2.33E-1	7.82E+0	1.29E-1	-1.18E+1	1.68E+1
GWP-b	kg CO2 eq	9.09E-2	-9.90E-5	1.18E-1	2.09E-1	1.41E-4	-9.44E-3	9.66E-5	-4.33E-2	1.56E-1
GWP-luluc	kg CO2 eq	5.99E-3	8.86E-4	5.22E-2	5.91E-2	8.23E-5	1.31E-3	1.87E-6	-2.58E-3	5.79E-2
ODP	kg CFC11 eq	5.03E-7	3.10E-7	5.08E-8	8.64E-7	5.36E-8	1.72E-7	2.75E-9	-5.67E-7	5.25E-7
AP	mol H+ eq	6.82E-2	3.64E-2	3.80E-3	1.08E-1	1.33E-3	7.24E-3	6.58E-5	-3.26E-2	8.45E-2
EP-fw	kg P eq	3.28E-4	8.93E-6	8.28E-6	3.46E-4	1.91E-6	3.80E-5	8.60E-8	-1.48E-4	2.38E-4
EP-m	kg N eq	1.16E-2	9.23E-3	1.13E-3	2.20E-2	4.74E-4	2.11E-3	4.62E-5	-5.96E-3	1.86E-2
EP-T	mol N eq	1.31E-1	1.03E-1	1.24E-2	2.46E-1	5.23E-3	2.32E-2	2.67E-4	-6.64E-2	2.09E-1
POCP	kg NMVOC eq	6.18E-2	2.68E-2	3.43E-3	9.20E-2	1.49E-3	7.33E-3	1.04E-4	-3.11E-2	6.99E-2
ADP-mm	kg Sb eq	2.48E-4	1.95E-5	1.35E-5	2.81E-4	6.02E-6	2.86E-5	6.62E-8	-7.52E-5	2.40E-4
ADP-f	MJ	6.34E+2	2.02E+1	4.46E+0	6.59E+2	3.57E+0	2.28E+1	2.01E-1	-3.51E+2	3.35E+2
WDP	m3 depriv.	1.46E+1	4.44E-2	2.87E+0	1.75E+1	1.10E-2	4.46E-1	1.01E-3	-6.79E+0	1.12E+1
PM	disease inc.	5.77E-7	7.36E-8	6.42E-8	7.14E-7	2.10E-8	1.19E-7	1.38E-9	-2.60E-7	5.96E-7
IR	kBq U-235 eq	4.41E-1	8.62E-2	1.33E-2	5.40E-1	1.56E-2	6.89E-2	9.35E-4	-2.09E-1	4.17E-1
ETP-fw	CTUe	1.18E+2	1.48E+1	1.24E+1	1.46E+2	2.90E+0	2.61E+1	1.77E-1	-5.34E+1	1.21E+2
HTP-c	CTUh	6.82E-9	7.90E-10	4.91E-10	8.10E-9	1.03E-10	3.14E-9	4.94E-12	-2.42E-9	8.93E-9
HTP-nc	CTUh	1.37E-7	1.36E-8	1.34E-8	1.64E-7	3.46E-9	3.92E-8	1.13E-10	-3.86E-8	1.68E-7
SQP	Pt	2.64E+1	7.87E+0	5.86E-1	3.48E+1	3.06E+0	1.83E+1	5.15E-1	-1.12E+1	4.55E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.12E+1	1.77E-1	2.81E+1	3.95E+1	5.12E-2	1.13E+0	7.91E-3	-5.02E+0	3.57E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.12E+1	1.77E-1	2.81E+1	3.95E+1	5.12E-2	1.13E+0	7.91E-3	-5.02E+0	3.57E+1
PENRE	MJ	6.81E+2	2.15E+1	4.74E+0	7.07E+2	3.79E+0	2.43E+1	2.13E-1	-3.79E+2	3.57E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.81E+2	2.15E+1	4.74E+0	7.07E+2	3.79E+0	2.43E+1	2.13E-1	-3.79E+2	3.57E+2
PET	MJ	6.92E+2	2.17E+1	3.29E+1	7.47E+2	3.84E+0	2.54E+1	2.21E-1	-3.84E+2	3.92E+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	2.26E-1	1.54E-3	6.83E-2	2.96E-1	4.04E-4	1.32E-2	2.48E-4	-1.04E-1	2.06E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.04E-4	2.99E-5	6.79E-6	1.40E-4	9.13E-6	3.73E-5	2.42E-7	-1.14E-4	7.35E-5
NHWD	kg	7.85E-1	4.75E-1	2.08E-2	1.28E+0	2.21E-1	1.13E+0	8.85E-1	-2.92E-1	3.23E+0
RWD	kg	3.95E-4	1.38E-4	1.89E-5	5.52E-4	2.43E-5	8.73E-5	1.31E-6	-1.95E-4	4.70E-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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