Product Environmental Profile

Cable tray 66 in U48X

Keeping you safer

Unex environmental commitment

Since 1964, Unex has been committed to create solutions which offer maximum safety to facilities, users, and environment.

Unex has focused its efforts on formulating its own raw materials which comply with the RoHS Directive, contributing to sustainable construction.

Unex's environmental performance is supported by the implementation, maintenance, and certification of the Environmental Management System in accordance with the ISO 14001.

Product information

Reference product	The products covered by this Product Environmental Profile are UNEX Cable Trays 66 in U48X. (PSR Category: Cable tray systems, specific rules defined in section 3.3) UNEX Cable Trays 66 comply with the EN 61537 Standard with good outdoor performance, to corrosion and to chemical agents and are designed to support full load. The reference product is Unex perforated cable tray 66 Ref. 66300-48 (60x300mm).
Functional unit	Support the wiring along 1 meter for a Reference Service Life of 20 years (*). The cable tray system 60x300, capable of supporting a load of 33,7 kg per metre on a span of 1,5 m, includes the profile and cable management and support components typical of standard use. *According to PSR this is a theoretical period used for calculations purposes and does not represent the minimum, average or actual lifetime of the product.

Basket of functions Cable tray system

Functions to be fulfilled	Total normalized to meters installed	
Perforated cable tray 60x300	1,03	
Vertical hinge	0,04	
Flat corner 90º	0,16	
Junction	0,33	
Horizontal support	0,66	

Homogeneous environmental family

Environmental impacts within the product family are proportional to the mass of the reference product.

The references covered are: 66100-48, 66101-48, 66200-48, 66201-48, 66300-48, 66301-48, 66420-48, 66421-48, 66620-48, 66621-48.

Constituent materials

Total mass of reference product, including packaging: 3505,75 g

		Plastics	Metals	Others
Product	U48X (own thermoplastic formulation)	93,57%	-	-
Packaging	Cardboard	-	-	5,96%
	Paper	-	-	0,09%
	Wood	-	-	0,37%
TOTAL		93,57%	0,00%	6,43%

The product is compliant with the RoHS Directive and does not contain substances of very high concern according to REACH Regulation.

Packaging cardboard is FSC-certified and has recycled content.

The estimated recycled content of the reference product (including packaging) is 75,06%.

Life cycle stages

Scope: - All stages of the life cycle “Cradle-to-Grave”.

- Product manufactured in Spain; distribution, and end of life scenarios worldwide.

Manufacturing	Raw materials, packaging, end of life of manufacturing wastes, upstream transport (product materials, packaging, and waste), energy and consumables, transport to the last logistic platform.
Distribution	Transport between Unex logistic centre and our worldwide sales destinations.
Installation	Manufacturing, distribution, and end of life of 3% scrap originated from off-cuts during installation and end of life of packaging. The product does not require earthing.
Use stage	This product does not require energy consumption, maintenance, or additional products during its use.
End of life	Transport of end-of-life product to a treatment centre and its treatment (according to the PSR, given the lifetime of these cable trays, no specific data can be used to model the end of life, and the default scenario of 100% incineration with no energy recovery must be considered)

Environmental Impacts

This Life Cycle Assessment was carried out using EIME© v6.2.2-10 and database CODDE-2024-04:

Indicator	Unit		A1-A3 Manufacturing	A4 Distribution	A5 Installation	B1-B7 Use	C1-C4 End of life	Sum
GWP Climate change	kg CO2 eq.	ℝ	2,04E+00	7,36E-01	6,20E-01	0,00E+00	1,27E+00	4,66E+00
		%	43,75	15,78	13,29	0,00	27,18	100,00
GWP-b Climate change-Biogenic	kg CO2 eq.	ℝ	-3,32E-01	0,00E+00	3,39E-01	0,00E+00	2,00E-03	8,42E-03
		%	49,37	0,00	50,33	0,00	0,30	100,00
GWP-f Climate change-Fossil	kg CO2 eq.	ℝ	2,37E+00	7,36E-01	2,81E-01	0,00E+00	1,27E+00	4,66E+00
		%	50,96	15,81	6,04	0,00	27,18	100,00
GWP-lu Climate change-Land use and land use change	kg CO2 eq.	ℝ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
		%	-	-	-	-	-	-
ODP Ozone depletion	kg CFC-11 eq.	ℝ	8,28E-07	3,57E-07	3,11E-08	0,00E+00	5,85E-08	1,27E-06
		%	64,98	27,99	2,44	0,00	4,59	100,00
AP Acidification	mol H+ eq.	ℝ	1,45E-02	1,52E-02	1,51E-03	0,00E+00	8,98E-03	4,02E-02
		%	36,04	37,87	3,75	0,00	22,34	100,00
EP-fw Eutrophication, freshwater	kg P eq.	ℝ	4,07E-06	1,60E-07	3,30E-06	0,00E+00	9,48E-07	8,47E-06
		%	48,04	1,88	38,89	0,00	11,19	100,00
EP-m Eutrophication, marine	kg N eq.	ℝ	2,22E-03	3,88E-03	4,26E-04	0,00E+00	2,26E-03	8,79E-03
		%	25,28	44,20	4,85	0,00	25,68	100,00
EP-t Eutrophication, terrestrial	mol N eq.	ℝ	2,51E-02	4,24E-02	4,16E-03	0,00E+00	2,97E-02	1,01E-01
		%	24,75	41,83	4,10	0,00	29,32	100,00
POCP Photochemical ozone formation - human health	kg NMVOC eq.	ℝ	9,57E-03	1,16E-02	1,06E-03	0,00E+00	6,29E-03	2,85E-02
		%	33,62	40,56	3,73	0,00	22,10	100,00
ADP-e Resource use, minerals and metals	kg SB eq.	ℝ	4,02E-07	1,17E-08	2,03E-08	0,00E+00	1,00E-07	5,35E-07
		%	75,25	2,18	3,80	0,00	18,77	100,00
ADP-f Resource use, fossils	MJ	ℝ	4,79E+01	9,14E+00	3,83E+00	0,00E+00	2,32E+01	8,41E+01
		%	56,94	10,88	4,56	0,00	27,62	100,00
WDP Water use	m3 eq.	ℝ	1,14E+00	2,15E-02	4,34E-02	0,00E+00	5,87E-02	1,27E+00
		%	90,23	1,70	3,43	0,00	4,64	100,00
PM Particulate matter	Disease occurrence	ℝ	8,47E-08	7,45E-08	8,91E-09	0,00E+00	6,14E-08	2,29E-07
		%	36,91	32,46	3,88	0,00	26,74	100,00
IRP Ionizing radiation, human health	kBq U^{235} eq.	ℝ	2,99E+01	1,56E-03	2,32E+00	0,00E+00	5,00E-01	3,27E+01
		%	91,36	0,00	7,11	0,00	1,53	100,00
ETP-fw Ecotoxicity, freshwater	CTUe	ℝ	3,16E+01	3,48E+00	4,40E+00	0,00E+00	3,95E+01	7,89E+01
		%	39,99	4,42	5,58	0,00	50,02	100,00
HTP-c Human toxicity, cancer	CTUh	ℝ	1,11E-09	1,05E-11	1,55E-08	0,00E+00	3,64E-10	1,70E-08
		%	6,55	0,06	91,25	0,00	2,14	100,00
HTP-nc Human toxicity, non-cancer	CTUh	ℝ	7,16E-09	9,74E-10	1,15E-09	0,00E+00	1,46E-08	2,39E-08
		%	29,95	4,07	4,82	0,00	61,15	100,00
SQP Land use	No dimension	ℝ	2,59E-02	0,00E+00	2,12E-03	0,00E+00	2,32E-02	5,12E-02
		%	50,58	0,00	4,15	0,00	45,27	100,00

Indicator	Unit		A1-A3 Manufacturing	A4 Distribution	A5 Installation	B1-B7 Use	C1-C4 End of life	Sum
PERE Renewable primary energy used as energy	MJ	ℝ	6,52E+00	5,25E-03	5,03E-01	0,00E+00	1,67E+00	8,69E+00
		%	74,94	0,06	5,78	0,00	19,22	100,00
PERM Renewable primary energy used as raw material	MJ	ℝ	3,87E+00	0,00E+00	6,10E-02	0,00E+00	0,00E+00	3,93E+00
		%	98,45	0,00	1,55	0,00	0,00	100,00
PERT Total renewable primary energy	MJ	ℝ	1,04E+01	5,25E-03	5,64E-01	0,00E+00	1,67E+00	1,26E+01
		%	82,25	0,04	4,47	0,00	13,24	100,00
PENRE Non renewable primary energy used as energy	MJ	ℝ	4,79E+01	9,14E+00	3,83E+00	0,00E+00	2,32E+01	8,41E+01
		%	56,94	10,88	4,56	0,00	27,62	100,00
PENRM Non renewable primary energy used as raw material	MJ	ℝ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
		%	-	-	-	-	-	-
PENRT Total non renewable primary energy	MJ	ℝ	4,79E+01	9,14E+00	3,83E+00	0,00E+00	2,32E+01	8,41E+01
		%	56,94	10,88	4,56	0,00	27,62	100,00
PET Total primary energy	MJ	ℝ	5,83E+01	9,15E+00	4,40E+00	0,00E+00	2,49E+01	9,67E+01
		%	60,25	9,46	4,55	0,00	25,74	100,00
SM Use of secondary material	kg	ℝ	2,41E+00	0,00E+00	5,44E-02	0,00E+00	0,00E+00	2,47E+00
		%	97,80	0,00	2,20	0,00	0,00	100,00
RSF Use of renewable secondary fuels	MJ	ℝ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
		%	-	-	-	-	-	-
NRSF Use of non renewable secondary fuels	MJ	ℝ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
		%	-	-	-	-	-	-
FW Net use of fresh water	m3	ℝ	2,29E-02	5,02E-04	1,62E-03	0,00E+00	2,12E-03	2,71E-02
		%	84,34	1,85	5,98	0,00	7,82	100,00

Indicator	Unit		A1-A3 Manufacturing	A4 Distribution	A5 Installation	B1-B7 Use	C1-C4 End of life	Sum
HWD Hazardous waste disposed	kg	ℝ	1,41E-01	3,34E-04	7,10E-02	0,00E+00	1,19E+00	1,40E+00
		%	10,07	0,02	5,07	0,00	84,83	100,00
NHWD Non-Hazardous waste disposed	kg	ℝ	3,34E-01	1,03E-02	7,33E-02	0,00E+00	1,87E-01	6,04E-01
		%	55,20	1,70	12,13	0,00	30,98	100,00
RWD Radioactive waste disposed	kg	ℝ	3,13E-04	8,71E-05	2,22E-05	0,00E+00	7,51E-05	4,98E-04
		%	62,95	17,50	4,47	0,00	15,08	100,00

Indicator	Unit		A1-A3 Manufacturing	A4 Distribution	A5 Installation	B1-B7 Use	C1-C4 End of life	Sum
CRU Components for reuse	kg	ℝ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
		%	-	-	-	-	-	-
MFR Materials for recycling	kg	ℝ	1,03E-02	0,00E+00	1,10E-01	0,00E+00	0,00E+00	1,20E-01
		%	8,61	0,00	91,39	0,00	0,00	100,00
MER Materials for energy recovery	kg	ℝ	0,00E+00	0,00E+00	1,40E-02	0,00E+00	0,00E+00	1,40E-02
		%	0,00	0,00	100,00	0,00	0,00	100,00
EE Exported Energy	MJ	ℝ	6,11E-03	0,00E+00	6,89E-03	0,00E+00	0,00E+00	1,30E-02
		%	47,02	0,00	52,98	0,00	0,00	100,00

Indicator	Unit	A1-A3 Manufacturing	A4 Distribution	A5 Installation	B1-B7 Use	C1-C4 End of life	Sum
Biogenic carbon content - Product	kg of C	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Biogenic carbon content - Packaging	kg of C	9,42E-02	0,00E+00	1,53E-03	0,00E+00	0,00E+00	9,57E-02

Environmental impacts of homogeneous family products

This PEP includes all sizes of Cable tray 66 in U48X. The environmental impact of a system covered by PEP ecopassport® other than the reference system for which it was drawn up (66300-48) can be calculated by multiplying the values of the environmental indicators by the corresponding coefficient for each stage of the life cycle and for the total life cycle.

Size (mm)	Reference	Coefficient
60x100 mm (Perforated)	66100-48	0,429
60x100 mm (Non Perforated)	66101-48	0,438
60x200 mm (Perforated)	66200-48	0,669
60x200 mm (Non Perforated)	66201-48	0,693
60x300 mm (Perforated)	66300-48	1,000
60x300 mm (Non Perforated)	66301-48	1,044
100x400 mm (Perforated)	66420-48	1,673
100x400 mm (Non Perforated)	66421-48	1,755
100x600 mm (Perforated)	66620-48	2,709
100x600 mm (Non Perforated)	66621-48	2,842

Company information

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PEPs are compliant with XP C08-100-1:2016 or EN 50693:2019 The components of the present PEP may not be compared with components from any other program.	
Document complies with ISO 14025:2010 “Environmental labels and declarations. Type III environmental declarations”	