Powering Business Worldwide	**Product Environmental Profile**	PEP ecopassport®

	**Eaton Crouse-Hinds series EMT set screw type connector**

Representative product	454 Crouse-Hinds Product Category: EMT set screw type connector
Description of the product	Eaton Crouse-Hinds series EMT set screw type connector, EMT, Straight, Non-insulated, Steel, Two tightening screws, 1-1/2"
Homogeneous Environmental Families Covered	The PEP concerns following product offerings from Eaton Crouse-Hinds series EMT set screw type connector series strut channel as mentioned below: 454 (Reference), 450S, 451, 452, 453, 455, 456, 457, 458, 459.
Functional unit	'Eaton Crouse-Hinds EMT set screw type connector is a straight, non-insulated steel fitting with two tightening screws designed to securely connect 1-1/2-inch EMT conduit to an electrical box or enclosure, ensuring mechanical stability and continuity for 20 years'
Company information	Eaton Crouse – Hinds 1700 Blue Hills Dr NE, Roanoke, VA 24012, United States Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	2.69E-01 kg (With packaging)		
Category PEP Material	**Material constituent**	**Mass (kg)**	**% Contribution**
Metals	Steel	2.27E-01	84.4%
Other	Cardboard	2.72E-02	10.1%
Metals	Zinc	1.46E-02	5.4%
Total		2.69E-01	100.0%

Substance Assessment
The representative product is compliant with the EU-RoHS Directive (2011/65/EU) without any exemption

Additional Environmental Information	
Manufacturing	The reference product is manufactured at the direct source supplier. Eaton is committed to reducing its overall manufacturing footprint by leveraging innovative technologies and sustainable practices to minimize energy use, emissions, materials, and waste.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	The installation process does not require any energy consumption and there is no waste other than the obsolete product packaging generated during this step.
Use	The product does not require energy consumption during operation.
End of life	The Product is having 100% incineration without energy recovery.

Environmental Impacts	
The calculation of the environmental impacts is the result of the Product's Life Cycle Analysis in accordance with ISO 14040/44, covering the entire lifecycle, i.e., "Cradle-to-Grave" including the following life cycle phases: production, distribution, installation, use and end of life. System modelling was carried out using the commercial LCA software EIME v6.3.0.1 with database version (CODDE-2025-04) Indicators Set: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0	
Manufacturing Phase	The reference product is manufactured at the direct source supplier plant in India. Energy model used: India
Distribution Phase	Distribution of the product in its packaging from the Eaton's last logistics platform to the installation place in America, United States is considered as per PCR rules.
Installation Phase	Product is installed in North America, United States. Installation of product and treatment of packaging waste are considered in this phase. There is no energy consumption for reference product.
Use Phase	Reference lifetime: 20 Years Usage profile: No Energy required in use phase.
End of life Phase	The product is assumed to be disposed with 100% incineration without energy recovery.

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 - Use	C1-C4 - End of life
Climate change - total	kg CO2 eq.	2.72E+00	2.49E+00	5.71E-02	5.17E-02	0.00E+00	1.16E-01
Climate change - fossil fuels	kg CO2 eq.	2.71E+00	2.53E+00	5.71E-02	9.09E-03	0.00E+00	1.15E-01
Climate change - biogenics	kg CO2 eq.	9.19E-03	-3.44E-02	2.34E-07	4.26E-02	0.00E+00	9.64E-04
Climate change - land use and land use transformation	kg CO2 eq.	1.91E-07	9.97E-08	8.63E-08	4.63E-10	0.00E+00	4.68E-09
Ozone depletion	kg eq. CFC-11	5.87E-08	4.44E-08	6.92E-10	3.35E-10	0.00E+00	1.33E-08
Acidification (AP)	mole of H+ eq.	1.38E-02	1.28E-02	9.01E-05	5.37E-05	0.00E+00	8.41E-04
Freshwater eutrophication	kg P eq.	2.77E-06	2.36E-06	2.13E-07	1.17E-08	0.00E+00	1.85E-07
Marine aquatic eutrophication	kg of N eq.	1.99E-03	1.76E-03	1.63E-05	1.29E-05	0.00E+00	2.04E-04
Terrestrial eutrophication	mole of N eq.	2.27E-02	1.96E-02	1.79E-04	1.73E-04	0.00E+00	2.70E-03
Photochemical ozone formation	kg of NMVOC eq.	7.02E-03	6.33E-03	5.80E-05	3.64E-05	0.00E+00	5.89E-04
Depletion of abiotic resources - elements	kg eq. Sb	2.87E-05	2.87E-05	2.04E-08	1.40E-09	0.00E+00	1.59E-08
Depletion of abiotic resources - fossil fuels	MJ	1.18E+02	1.15E+02	1.01E+00	1.70E-01	0.00E+00	2.13E+00
Water scarcity	m3 of eq.. deprivation worldwide	9.43E-01	9.24E-01	2.05E-03	5.40E-04	0.00E+00	1.58E-02

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 - Use	C1-C4 - End of life
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	8.79E-01	7.12E-01	3.20E-03	1.48E-02	0.00E+00	1.49E-01
Use of renewable primary energy resources used as raw materials	MJ	4.89E-01	4.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 - Use	C1-C4 - End of life
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	1.37E+00	1.20E+00	3.20E-03	1.48E-02	0.00E+00	1.49E-01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	1.18E+02	1.15E+02	1.01E+00	1.70E-01	0.00E+00	2.13E+00
Use of non-renewable primary energy resources used as raw materials	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	1.18E+02	1.15E+02	1.01E+00	1.70E-01	0.00E+00	2.13E+00
Use of secondary materials	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m3	2.20E-02	2.15E-02	4.78E-05	1.24E-05	0.00E+00	3.67E-04
Hazardous waste disposed of	kg	5.86E-01	1.49E-01	2.39E-04	1.01E-02	0.00E+00	4.26E-01
Non-hazardous waste disposed of	kg	1.53E+00	1.51E+00	5.30E-03	1.23E-03	0.00E+00	1.64E-02
Radioactive waste disposed of	kg	3.90E-05	2.64E-05	4.20E-06	5.18E-07	0.00E+00	7.96E-06
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the 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 of the associated packaging	kg of C.	1.16E-02	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Environmental Impact Indicators: Optional

Optional Environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 - Use	C1-C4 - End of life
Emission of fine particles	incidence of diseases	7.42E-08	6.75E-08	7.73E-10	3.72E-10	0.00E+00	5.55E-09
Ionizing radiation, human health	kBq of U235 eq.	1.28E-01	8.18E-02	2.02E-03	3.41E-03	0.00E+00	4.09E-02
Ecotoxicity, fresh water	CTUe	1.61E+01	1.03E+01	1.66E+00	2.36E-01	0.00E+00	3.87E+00
Human toxicity, cancer effects	CTUh	6.34E-09	6.28E-09	1.12E-11	1.71E-12	0.00E+00	4.10E-11
Human toxicity, non-cancer effects	CTUh	9.43E-08	9.21E-08	2.13E-10	6.82E-11	0.00E+00	1.82E-09
Impacts related to land use/soil quality	-	9.17E-03	4.44E-03	2.44E-04	2.00E-04	0.00E+00	4.29E-03
Total use of primary energy during the life cycle	MJ	1.19E+02	1.16E+02	1.02E+00	1.85E-01	0.00E+00	2.28E+00

To evaluate the environmental impact of other product covered by this PEP, multiply the impact figures by-

Factors for Manufacturing, Distribution, Installation, Use & End-of-Life Phase:

Part Number	Manufacturing	Distribution	Installation	Use	End of life
450S	0.17	1.00	0.13	1.00	1.00
451	0.29	0.29	0.22	1.00	0.29
452	0.45	0.45	0.38	1.00	0.45
453	0.91	0.91	0.79	1.00	0.91
454	1.00	1.00	1.00	1.00	1.00
455	1.45	1.45	0.70	1.00	1.45
456	2.69	2.69	3.47	1.00	2.69
457	3.09	3.09	5.49	1.00	3.09
458	4.89	4.89	15.67	1.00	4.89
459	5.73	5.73	15.96	1.00	5.73

Additional Information:

The Global Warming Potential (kg CO2 eq.) as per TRACI 2.1 is reported for covered part numbers in the given below table

Part Number	Manufacturing	Distribution	Installation	Use	End of life
450S	2.47E+00	5.61E-02	5.15E-02	1.00E+00	1.13E-01
451	8.52E+00	1.93E-01	2.34E-01	1.00E+00	3.89E-01
452	5.49E+00	6.67E-01	1.35E-01	1.00E+00	2.51E-01
453	2.72E+00	2.30E+00	6.51E-02	1.00E+00	1.24E-01
454	2.47E+00	7.93E+00	5.15E-02	1.00E+00	1.13E-01
455	1.70E+00	2.73E+01	7.35E-02	1.00E+00	7.78E-02
456	9.19E-01	9.43E+01	1.48E-02	1.00E+00	4.20E-02
457	8.00E-01	3.25E+02	9.37E-03	1.00E+00	3.65E-02
458	5.05E-01	1.12E+03	3.28E-03	1.00E+00	2.31E-02
459	4.31E-01	3.87E+03	3.22E-03	1.00E+00	1.97E-02

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		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2006			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 *The components of the present PEP may not be compared with components from any other program.*			
Document complies with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations »			