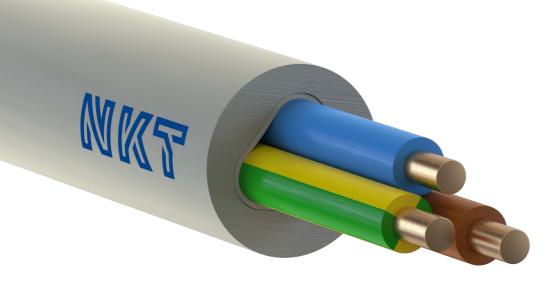


Environmental product declaration

In accordance with 14025 and EN15804+A2

NOIKLX 90 3G1,5





Owner of the declaration: NKT A/S

Product: NOIKLX 90 3G1,5

Declared unit: 1 m

This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 027 Part B for Electrical cables and wires **Program operator:** The Norwegian EPD Foundation

Declaration number:

NEPD-4499-3760-EN

Registration number:

NEPD-4499-3760-EN

Issue date: 26.05.2023

Valid to: 26.05.2028

EPD Software: LCA.no EPD generator ID: 56947

The Norwegian EPD Foundation



General information

Product NOIKLX 90 3G1,5

Program operator:

Post Box 5250 Majorstuen, 0303 Oslo, Norway The Norwegian EPD Foundation Phone: +47 23 08 80 00 web: post@epd-norge.no

Declaration number: NEPD-4499-3760-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 027 Part B for Electrical cables and wires

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 m NOIKLX 90 3G1,5

Declared unit with option:

A1, A2, A3, A4, A5, C1, C2, C3, C4, D

Functional unit:

1 m of NOIKLX 90 3G1,5 installed electrical cable used to transmit a reference electric current of 1A over 30 years, including waste treatment at end-of-life.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Individualthird party verification of each EPD is not required when the EPD tool is i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPDNorway, and iii)the process is reviewed annualy. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools.

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools. Approval number: NEPDT32.

Third party verifier:

Owner of the declaration:

NKT A/S Contact person: Matheo Roehr Phone: e-mail: matheo.roehr@nkt.com

Manufacturer:

NKT A/S Vibeholms Allé 20 2605 Brøndby, Denmark

Place of production:

NKT production site Warszowice (Poland Gajowa 3 43-254 Warszowice, Poland

Management system:

ISO 9001, ISO 14001

Organisation no:

957 338 690

Issue date: 26.05.2023

Valid to: 26.05.2028

Year of study:

2021

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway. Approval number:

Developer of EPD: Ann Aittamaa

Reviewer of company-specific input data and EPD: Matheo Roehr

Approved:

Håkon Hauan Managing Director of EPD-Norway

Vito D'Incognito - Take Care International (no signature required)



Product

Product description:

Where halogen-free and environmentally friendly cables are required. For fixed installation in dry and wet rooms and outside as well as in the open air. Can be laid in the ground. May be bricked in and embedded directly. Not suitable for embedment in vibrated concrete. Conductor insulation must be protected against light exposure. Installation to be performed by a licensed electrician only.

Product specification

Conductor:

1,5-4 mm2: Copper conductor, solid cl. 1 6-50 mm2: Copper conductor, stranded cl. 2

PEX insulation:

1,5-2,5 mm2: Filling sheath, thermoplastic compound > 4 mm2: EPDM-rubber

Outer sheath:

Thermoplastic compound, UV-stabilized

Materials	kg	%
HFFR Polyolefin	0,04	46,57
Metal - Copper	0,04	44,05
Plastic - Polyethylene	0,01	9,38
Total	0,09	

Technical data:

NOIKLX 90 3G1,5 Standard applied: NKT factory standard no. 008

Rated voltage: 300/500V Test voltage: 2 kV AC Operating temperature: 90°C Conductor temperature: 90 °C Max. short-circuit temperature: 250 °C Min. handling temperature: -15 °C Max. storage temperature: 40 °C Color of the sheath: Light grey Smoke density: IEC 61034 Fire test: IEC 60332-1 CPR fire class: Eca Emission of corrosive gases: IEC 60754-1, EN 50267-2-1 Conductivity - pH change: IEC 60754-2, EN 50267-2-3 Min. bending radius: 1-5 core (1,5-2,5mm2): 5 x cable diameter Multi-core (>2,5 mm2): 8 x cable diameter 1-core (>2,5 mm2): 10 x cable diameter Max. pulling force: 50 N/mm2 on conductors CE-conformity: Low Voltage Directive

Market:

Denmark

Reference service life, product 30 years. As defined in appendix 1 of the PEP Ecopassport PSR.

Reference service life, building or construction works 30 years.

LCA: Calculation rules

Declared unit: 1 m NOIKLX 90 3G1,5

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.



Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

Materials	Source	Data quality	Year
HFFR Polyolefin	ecoinvent 3.6	Database	2019
Metal - Copper	ecoinvent 3.6	Database	2019
Plastic - Polyethylene	ecoinvent 3.6	Database	2019

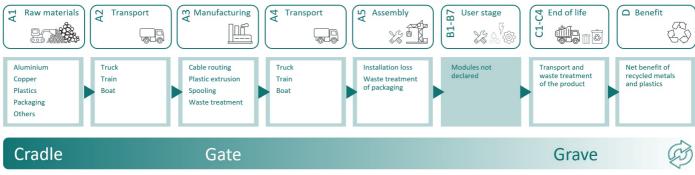


System boundaries (X=included, MND=module not declared, MNR=module not relevant)

	P	roduct stag	je		uction on stage		Use stage				End of life stage				Beyond the system boundaries		
Raw	materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operation al water use	De- construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery- Recycling-potential
A	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
	Х	Х	Х	Х	Х	MND	MND	MND	MND	MND	MND	MND	Х	Х	Х	Х	Х

System boundary:

The flowchart below illustrates the system boundaries of the analysis:



Additional technical information:

The reference product NOIKLX 90 3G1,5 represents the entire product family. Please contact us for a specific EPD of another cable in the product family:



LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Module A4 = An average distance between the factory and the market is considered.

Modules A5 = 2 % product losses during installation are estimated by the company. No energy use for installation has been quantified since this operation is assumed to be done with other products and should be assessed at a construction works level. Cable drums are reused and assumed under the cut-off criterion of 1%.

Module C1 = For both buildings and construction works, cables will be taken out as part of a larger demolition. The energy use for cable removal compared to other heavier materials is assumed to be low. This module can therefore be included with zero impact.

Module C2 = An average distance between the market and the waste treatment facility is considered.

Modules C3 and C4 = Waste treatment of the product follows the default values provided in EN 50693, Product Category Rules for life cycle assessments of electronic and electrical products and systems, table G.4. This table specified how different types of raw materials used in A1 will likely be treated during the end-of-life of the product. Waste treatments in C3 include material recycling and incineration with and without energy recovery and fly ash extraction. Disposal in C4 consist of landfilling of different waste fractions and of ashes.

Module D = The recyclability of metals and plastics allows the producers a credit for the net scrap that is produced at the end of a product's life. The benefits from recycling of net scrap are described in formula from EN 15804:2012+A2:2019. Substitution of heat and electricity generated by the incineration with energy recovery of plastic insulation and other parts is also calculated in module D.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, over 32 tonnes, EURO 6 (km) - Europe	53,3 %	1210	0,023	l/tkm	27,83
Assembly (A5)	Unit	Value			
Product loss during installation (percentage of cable)	Units/DU	0,02			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, over 32 tonnes, EURO 6 (km) - Europe	53,3 %	300	0,023	l/tkm	6,90
Waste processing (C3)	Unit	Value			
Copper to recycling (kg)	kg	0,02			
Waste treatment of plastic mixture, incineration with energy recovery and fly ash extraction (kg)	kg	0,02			
Waste treatment of polyethylene (PE), incineration with energy recovery and fly ash extraction (kg)	kg	0,00			
Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Plastic mixture, process per kg ashes and residues (kg)	kg	0,00			
Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg)	kg	0,00			
Landfilling of copper (kg)	kg	0,02			
Landfilling of plastic mixture (kg)	kg	0,02			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	0,04			
Substitution of primary copper with net scrap (kg)	kg	0,02			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	0,59			



LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Envir	Environmental impact												
	Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D	
P	GWP-total	kg CO ₂ - eq	3,55E-01	6,73E-03	3,68E-03	9,39E-03	8,81E-03	0	2,33E-03	6,05E-02	3,02E-03	-4,52E-02	
P	GWP-fossil	kg CO ₂ - eq	3,50E-01	6,73E-03	3,36E-03	9,38E-03	8,71E-03	0	2,33E-03	6,05E-02	3,02E-03	-4,48E-02	
P	GWP-biogenic	kg CO ₂ - eq	4,40E-03	2,88E-06	3,01E-04	4,02E-06	9,42E-05	0	9,96E-07	1,15E-06	2,54E-07	-2,00E-04	
P	GWP-luluc	kg CO ₂ - eq	2,71E-04	2,05E-06	2,23E-05	2,86E-06	5,99E-06	0	7,09E-07	2,10E-07	1,42E-07	-1,62E-04	
Ò	ODP	kg CFC11 - eq	4,93E-06	1,62E-09	6,56E-10	2,26E-09	9,87E-08	0	5,61E-10	1,14E-10	1,40E-10	-2,51E-04	
(E)	AP	mol H+ -eq	9,20E-03	2,17E-05	6,53E-05	3,02E-05	1,87E-04	0	7,49E-06	1,21E-05	3,64E-06	-6,98E-03	
-	EP-FreshWater	kg P -eq	7,26E-05	5,35E-08	2,02E-07	7,46E-08	1,46E-06	0	1,85E-08	1,02E-08	6,65E-09	-4,72E-05	
	EP-Marine	kg N -eq	7,04E-04	4,74E-06	1,98E-05	6,61E-06	1,49E-05	0	1,64E-06	5,79E-06	4,21E-06	-2,95E-04	
	EP-Terrestial	mol N - eq	9,91E-03	5,29E-05	3,13E-04	7,38E-05	2,09E-04	0	1,83E-05	5,98E-05	1,46E-05	-4,53E-03	
	РОСР	kg NMVOC -eq	2,61E-03	2,08E-05	5,61E-05	2,90E-05	5,48E-05	0	7,18E-06	1,44E-05	4,73E-06	-1,23E-03	
*\$Ð	ADP- minerals&metals ¹	kg Sb - eq	8,20E-05	1,20E-07	3,02E-08	1,67E-07	1,65E-06	0	4,14E-08	5,70E-09	3,59E-09	-3,90E-05	
B	ADP-fossil ¹	MJ	5,60E+00	1,09E-01	3,09E-02	1,52E-01	1,19E-01	0	3,78E-02	7,43E-03	1,08E-02	-4,19E-01	
6	WDP ¹	m ³	1,85E+01	8,38E-02	2,51E-02	1,17E-01	3,80E-01	0	2,90E-02	4,96E-02	1,80E-01	1,65E+00	

GWP total Global Warming Potential total; GWP fossil Global Warming Potential fossil fuels ; GWP biogenic Global Warming Potential biogenic; GWP luluc Global W Potential land use change; ODP Ozone Depletion; AP Acidification; EP freshwater Eutrophication aquatic freshwater; EP marine Eutrophication aquatic marine; EP terrestrial Eutrophication terrestrial ;POCP Photochemical zone formation; ADPE Abiotic Depletion Potential minerals and metals; ADPf Abiotic Depletion Potential fossil fuels;

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Remarks to environmental impacts



Addi	Additional environmental impact indicators												
Ind	icator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D	
	PM	Disease incidence	3,12E-08	6,18E-10	9,03E-10	8,62E-10	6,78E-10	0	2,14E-10	5,20E-11	6,80E-11	-1,56E-08	
	IRP ²	kgBq U235 -eq	1,63E-02	4,78E-04	1,14E-04	6,66E-04	3,56E-04	0	1,65E-04	1,80E-05	6,17E-05	-7,74E-04	
	ETP-fw ¹	CTUe	1,08E+02	7,99E-02	5,92E-01	1,11E-01	2,37E+00	0	2,76E-02	1,04E-01	9,54E+00	-6,42E+01	
40.** 40.**	HTP-c ¹	CTUh	1,97E-09	0,00E+00	7,00E-12	0,00E+00	4,00E-11	0	0,00E+00	3,00E-12	0,00E+00	-9,07E-10	
	HTP-nc ¹	CTUh	1,45E-07	7,80E-11	2,01E-10	1,08E-10	2,92E-09	0	2,70E-11	1,37E-10	1,30E-11	-7,76E-08	
Ò	SQP ¹	dimensionless	2,64E+00	1,25E-01	2,39E+00	1,75E-01	1,08E-01	0	4,33E-02	1,31E-03	3,04E-02	-1,14E+00	

PM Particulate Matter emissions; IRP Ionizing radiation – human health; ETP-fw Eco toxicity – freshwater; HTP-c Human toxicity – cancer effects; HTP-nc Human toxicity – non cancer effects; SQP Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.



Resource	Resource use													
Inc	dicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D		
i i i i i i i i i i i i i i i i i i i	PERE	MJ	7,36E-01	1,37E-03	5,00E-01	1,92E-03	2,48E-02	0	4,75E-04	3,92E-04	9,78E-04	-4,52E-01		
B	PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00		
° ⊊ ₂	PERT	MJ	7,36E-01	1,37E-03	5,00E-01	1,92E-03	2,48E-02	0	4,75E-04	3,92E-04	9,78E-04	-4,52E-01		
B	PENRE	MJ	4,54E+00	1,09E-01	3,10E-02	1,52E-01	9,77E-02	0	3,78E-02	7,43E-03	1,08E-02	-4, 19E-01		
Å	PENRM	MJ	1,09E+00	0,00E+00	0,00E+00	0,00E+00	1,04E-03	0	0,00E+00	-1,04E+00	0,00E+00	0,00E+00		
IA	PENRT	MJ	5,63E+00	1,09E-01	3,10E-02	1,52E-01	9,88E-02	0	3,78E-02	-1,04E+00	1,08E-02	-4, 19E-01		
	SM	kg	6,66E-03	0,00E+00	1,32E-06	0,00E+00	1,35E-04	0	0,00E+00	0,00E+00	7,96E-05	1,21E-02		
P	RSF	MJ	1,87E-02	4,81E-05	1,91E-05	6,70E-05	3,78E-04	0	1,66E-05	8,59E-06	2,03E-05	1,10E-03		
Ū.	NRSF	MJ	1,36E-03	1,61E-04	1,12E-04	2,25E-04	3,87E-05	0	5,57E-05	0,00E+00	1,91E-05	-1,55E-02		
\$	FW	m ³	6,65E-03	1,24E-05	1,58E-05	1,73E-05	1,35E-04	0	4,30E-06	5,83E-05	1,38E-05	-1,38E-03		

PERE Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM Use of renewable primary energy resources used as raw materials; PERT Total use of renewable primary energy resources; PENRE Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; PERT Total use of non renewable primary energy resources; SM used as raw materials; PENRT Total use of non renewable primary energy resources; SM Use of secondary materials; RSF Use of renewable primary energy resources; SM use of secondary materials; RSF Use of renewable secondary fuels; NRSF Use of non renewable secondary fuels; FW Use of net fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed



End of lif	e - Waste											
Ind	icator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
A	HWD	kg	1,90E-03	5,98E-06	5,01E-04	8,34E-06	6,27E-05	0	2,07E-06	0,00E+00	7,19E-04	-4,71E-04
Ū	NHWD	kg	1,15E-01	9,50E-03	1,29E-03	1,32E-02	3,65E-03	0	3,28E-03	0,00E+00	4,02E-02	-2,11E-02
R	RWD	kg	1,55E-05	7,46E-07	1,74E-07	1,04E-06	3,55E-07	0	2,58E-07	0,00E+00	7,32E-08	-6,73E-07

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed;

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

End of life	Ind of life - Output flow														
Indica	ator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D			
øþ	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00			
\$\$D	MFR	kg	1,09E-05	0,00E+00	4,20E-05	0,00E+00	4,63E-04	0	0,00E+00	2,31E-02	2,34E-06	-4,74E-04			
DF	MER	kg	2,55E-05	0,00E+00	2,01E-08	0,00E+00	4,90E-04	0	0,00E+00	2,45E-02	2,00E-06	-6,24E-05			
₹Þ	EEE	MJ	4,74E-05	0,00E+00	1,03E-03	0,00E+00	8,06E-04	0	0,00E+00	3,92E-02	2,07E-05	-1,53E-04			
Þ0	EET	MJ	7,17E-04	0,00E+00	1,56E-02	0,00E+00	1,22E-02	0	0,00E+00	5,93E-01	3,14E-04	-2,31E-03			

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported energy Thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

Biogenic Carbon Content											
Indicator	Unit	At the factory gate									
Biogenic carbon content in product	kg C	0,00E+00									
Biogenic carbon content in accompanying packaging	kg C	0,00E+00									

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2



Additional Norwegian requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Data source	Amount	Unit
Electricity, renewable with guarantee of origin, low voltage, Poland (kWh) - NKT	ecoinvent 3.6	71,22	g CO2-eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list or the Norwegian priority list.

Indoor environment

Additional Environmental Information

Environmer	Environmental impact indicators EN 15804+A1 and NPCR Part A v2.0													
Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D			
GWP	kg CO ₂ -eq	3,40E-01	6,66E-03	3,48E-03	9,29E-03	8,50E-03	0	2,30E-03	6,05E-02	2,42E-03	-4,35E-02			
ODP	kg CFC11 -eq	6,57E-06	1,31E-09	6,32E-10	1,83E-09	1,31E-07	0	4,54E-10	1,06E-10	1,19E-10	-2,08E-09			
POCP	kg C ₂ H ₄ -eq	3,35E-04	8,24E-07	2,79E-06	1,15E-06	6,81E-06	0	2,85E-07	1,68E-07	4,66E-07	-2,35E-04			
AP	kg SO ₂ -eq	7,31E-03	1,40E-05	3,89E-05	1,96E-05	1,48E-04	0	4,85E-06	8,46E-06	1,51E-06	-5,96E-03			
EP	kg PO4 ³⁻ -eq	4,21E-04	1,52E-06	1,30E-05	2,12E-06	8,84E-06	0	5,26E-07	2,83E-06	1,55E-06	-2,55E-04			
ADPM	kg Sb -eq	8,20E-05	1,20E-07	3,02E-08	1,67E-07	1,65E-06	0	4,14E-08	5,70E-09	3,83E-09	-3,90E-05			
ADPE	MJ	4,91E+00	1,07E-01	3,03E-02	1,50E-01	1,05E-01	0	3,71E-02	7,43E-03	1,02E-02	-4,19E-01			
GWPIOBC	kg CO ₂ -eq	3,54E-01	6,73E-03	2,46E-03	9,39E-03	8,71E-03	0	2,33E-03	6,05E-02	3,34E-04	-2,32E-02			

GWP Global warming potential; ODP Depletion potential of the stratospheric ozone layer; POCP Formation potential of tropospheric photochemical oxidants; AP Acidification potential of land and water; EP Eutrophication potential; ADPM Abiotic depletion potential for non fossil resources; ADPE Abiotic depletion potential for fossil resources; GWP-IOBC/GHG Global warming potential calculated according to the principle of instantanious oxidation (except emissions and uptake of biogenic carbon)



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