

Life Cycle Impact Reduction Action Plan Report 4-Pair Copper Riser Cable 102.1

Impact information and Reduction Summary

Manufacturer:	Superior Essex Communications		
Manufacturer Contact Information:	Annie Bevan, Global Head of Sustainability, annie.bevan@spsx.com		
Product Names:	10Gain® XP Category 6A, 10Gain® Category 6A, Category 6A STP 10Gain® XP Category 6A, 10Gain® Category 6A, Category 6A STP (U/ FTP), Category 6A ScTP (F/UTP), Category 6+ ScTP (F/UTP), Category 6+ LSHF, NextGain® Category 6eX, DataGain® Category 6+, Category 6, Cobra Category 5e+, Category 5e+ ScTP (F/UTP), Marathon LAN® Category 5e, PowerWiseTM Category 5e+ 4PPoE		
Product Type:	Commercial Building Product-Communication Cable		
Location where the product was manufactured:	Hoisington, KS		
Title of the Life Cycle Assessment/Environmental Product Declaration that the assessment is based upon:	Superior Essex 4789047039.102.1 4-Pair Copper Riser Cable		
Life Cycle Assessment/ Environmental Product Declaration Type:	Product specific Type III EPD		
Link to publicly available LCA	https://sustainability.superioressexcommunications.com/wp-		
or EPD:	content/uploads/2019/10/EPD-Riser-Rated.pdf		
LCA Framework/PCR:	References PCR for Electrical, Electronic and HVAC-R Products (2015) and PSR for Wires, Cables and Accessories (2015)		
Date of LCA or EPD:	October 1, 2019		
Scope:	Cradle to grave per PCR referenced above.		
Describe how the scope of the product LCA or EPD aligns with actions identified in this Action Plan:	The actions listed in this plan were based on analysis of the raw material and manufacturing stages of the LCA data.		

LCA Software, Version, and Dataset:	The LCA model was created using the GaBi 9 Software system for life cycle engineering, developed by thinkstep AG. The GaBi 2019 LCI database (Service Pack 38) provides the life cycle inventory data for several of the raw and process materials obtained from the background system.						
Action Plan Creation Date:	November 1, 2020						
Action Plan Expiration Date:	November 1,	2024					
Is this Action Plan applicable to all products listed in the analysis (must include GWP)?	The Action Plan is applicable to all products listed in the corresponding EPD.						
Table or Summary of Largest Life Cycle Impacts identified in the analysis (must include GWP):	The highest impact area was found to be manufacturing, which includes raw material extraction. Of all impact areas, Global Warming Potential was consistently the highest. The following table is provided as an example:						'arming
	IMPACT UNIT 10Gain Category 6A CATEGORY						
	CATEGORI		Manufacturing	Distribution	Installation	Use	EOL
	GWP	kg CO ₂ -eq.	4.49E-01	1.65E-02	4.19E-02	1.47E-01	1.74E-02
	AP	kg SO ₂ -eq.	1.91E-03	3.98E-05	1.40E-04	4.39E-04	4.84E-05
	EP	kg PO ₄ ³-eq.	1.43E-04	1.14E-05	1.62E-05	2.39E-05	7.47E-06
	ODP	kg R11-eq.	1.51E-11	1.66E-18	7.93E-13	4.82E-16	1.29E-16
	POCP	kg C ₂ H ₄ -eq.	1.34E-04	-1.18E-05	1.01E-05	2.66E-05	-2.52E-06
	ADPe	kg Sb-eq.	8.23E-04	3.35E-09	4.33E-05	3.50E-08	4.15E-09
	PED	MJ	8.84E+00	2.49E-01	5.67E-01	2.35E+00	2.71E-01
	Net Water Use	m³	3.27E-03	2.99E-05	1.86E-04	8.22E-04	1.34E-04
	Net Water Use Air Pollution	m³ m³	3.27E-03 1.17E+04	2.99E-05 7.40E-01	1.86E-04 6.21E+02	8.22E-04 7.29E+00	1.34E-04 1.17E+00

Narrative Description of the Impact Areas Targeted for Reduction (must include specific steps, dates, and timeline for completion, and include why/why not GWP is targeted for reduction and include a numeric impact reduction tar- get. Actions must correspond to impact modules analyzed in the LCA or EPD):	All of the following impact reduction measures correspond with the Global Warming Potential in manufacturing impact, Superior Essex plans to implement these practices within the coming 3 years to reduce our total life cycle impact.
Specific Steps:	Estimated Time to Complete:
LED Lighting retrofit	End of Q2 2022
HVAC efficiency adjustments	End of Q4 2020
Process water temperature isolation	End of Q3 2021
Air wipe and filler line efficiency adjustments	End of Q2 2021
Low-flow fixture installation	End of Q2 2021
This Action Plan was prepared by:	Annie Bevan, Global Head of Sustainability x
This Action Plan was confirmed by an executive of the manufacturer:	Brian Ensign, Vice President of Marketing x Brian Chsign