



Product Lens

a materials health assessment

COMPANY AND PRODUCT INFO

Issued to	Belden
Description	Surveillance Monitoring Cables, Non-Plenum Solid Bare Copper Conductors RG6 / RG59 / 5E4PR + 2C16/18 - Siamese
For the Products	5399X5xxx, 539945xxx, 5499X5xxx, 549945xxx, 549945Xxxx, 5288USxxx
Certification Period	May 2017- May 2019
Assessor	MBDC basis methodology v3.1*



Qualifications

- LEED BPDO Credit: Material Ingredients Option 1 Qualifies for as 1 product
- LEED BPDO Credit: Material Ingredients Option 2 Qualifies for 100% of cost

Other Achievements



MATERIALS / INGREDIENTS INFORMATION

Disclosure Level: 100 ppm 1000 ppm

The following table represents the top 90% of the material ingredient disclosure and ratings. For the full ingredient disclosure information, please see the table on the reverse side.

Materials	Result			
	Supply Chain/ MFG	Install	Use	End of Use
Copper	Yellow	Green	Green	Yellow
Tinned Copper	Green	Green	Green	Green
PVC	I,D	Yellow	Yellow	I,D
Filler	Green	Green	Green	Green
Flame Retardant	Yellow	Green	Green	Green
Plasticizer	Black	Black	Black	Black
Polyolefin 1	Green	Green	Green	Green
FR Plasticizer	I,D	Yellow	Yellow	I,D
Proprietary	Green	Green	Green	Green

Exposure Indicator

D = Dermal, Skin
I = Inhalation, air
O = Oral, mouth

*No Indicator means no potential exposure scenario identified

Color Ratings

Green	Low or mild hazard identified and/or potential exposure
Yellow	Moderate hazard identified and/or potential exposure
Red	Problematic concern found. The combination of the hazard and potential exposure leads to some caution for some uses and/or applications.
Grey	Cannot be fully assessed due to either lack of complete formulation, or lack of toxicological information for one or more ingredients.
Black	Highly problematic material containing one or more chemicals classified as CMR and having a plausible route of exposure.

Go to ul.com/spg to view the full, detailed materials ingredient list

www.belden.com

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*Methodology based on Cradle to Cradle Certified™ Product Material Health Assessment Methodology v3.1



CERTIFIED

PRODUCT LENS MATERIALS
TRANSPARENCY AND
DISCLOSURE.
VIEW SPECIFIC INGREDIENTS
AND EVALUATIONS:
UL.COM/PL

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Material	CAS Number	Role	%					Comment
				MFG	Install	Use	End of Use	
Copper	7440-50-8	Conductor/ Braid	24-51					Highly toxic to aquatic organisms; however, this material is acceptable for use in all phases due to limited exposure opportunity to biosphere.
Tinned Copper		Conductor	35-38					Highly toxic to aquatic organisms; however, this material is acceptable for use in all phases due to limited exposure opportunity to biosphere.
PVC	9002-86-2	Jacket/Insulation	20-23	I,D			I,D	Lifecycle concerns around use of halogenated polymers.
Filler	Proprietary	Various components	0.1-10					Little to no risk across all product phases
Flame Retardant	Proprietary	Jacket	0-10					Some chronic toxicity concerns, but little risk as used in this product.
Plasticizer	Proprietary	Jacket	4.3-8.5					CMR - Reproductive toxin -(CA Prop 65)
Polyolefin 1	Proprietary	Insulation	0-7.3					Little to no risk across all product phases
FR Plasticizer	Proprietary	Jacket	0-6	I,D			I,D	Lifecycle concerns around use of halogenated polymers.
Proprietary	Proprietary	Insulation	0-4					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	1-2					Little to no risk across all product phases
Polyolefin 2	Proprietary	Various components	0-2.0					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.8-1.5					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0-1.3					Little to no risk across all product phases
Flame Retardant	Proprietary	Jacket/ Insulation	0.6-1.0					Suspected human carcinogen - CA Prop 65, IARC Group 2B, MAK Group 2
Titanium Dioxide	13463-67-7	Various components	0-1.0					Little to no risk across all product phases
Resins	Proprietary	Tape	0-0.6					Little to no risk across all product phases
Proprietary	Proprietary	Various components	0.25-0.35					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.25-0.35	I				Inhalation concerns during manufacturing, but little to no risk during product installation, use and end of use.
PET	25038-59-9	Tape/ Ripcord	0.15-0.25					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.10-0.15					Little to no risk across all product phases
Proprietary	Proprietary	Colorant	0.08-0.13					Little to no risk across all product phases
Proprietary	Proprietary	Various components	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Various components	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Various components	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Tape	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05	D	D	D	D	Skin sensitization and aquatic toxicity concerns, however should be acceptable across all product stages.
Proprietary	Proprietary	Jacket	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Various components	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Various colorants	<0.05					CMR - suspected endocrine disruptor and potential reproductive toxicant (CA Prop 65)
Polyolefin	Proprietary	Insulation	<0.05	I				Respiratory sensitizer. Risk during manufacture, but acceptable for use in other phases.
Proprietary	Proprietary	Insulation	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Tape	<0.05					High aquatic toxicity so care must be taken during manufacture and at end of use to make sure substance does not enter the environment
Stabilizer	Unknown	Insulation	<0.05					Unknown

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	Highly problematic material containing one or more chemicals classified as CMR and having a plausible route of exposure.

