



Product Lens

a materials health assessment

COMPANY AND PRODUCT INFO

Issued to	Belden
Description	Fire Alarm Cable, Non-Plenum NPLF Rated Solid Bare Copper Conductors, 16 AWG 2 Conductors, Shielded
For the Products	5220FNxxx
Certification Period	April 2017-April 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	Green
PVC	Red (I,D)	Yellow	Yellow	Red (I,D)
Filler	Green	Green	Green	Green
Tinned Copper	Yellow	Green	Green	Yellow
Proprietary	Green	Green	Green	Green
Plasticizer	Black	Black	Black	Black
Plasticizer	Green	Green	Green	Green
Plasticizer	Green	Green	Green	Green
Aluminum	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

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

Declaration Number: 4787608281.309.1



CERTIFIED

PRODUCT LENS MATERIALS
TRANSPARENCY AND
DISCLOSURE
VIEW SPECIFIC INGREDIENTS
AND EVALUATIONS:

UL.COM/PL

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Material	CAS Number	Role	%	MFG	Install	Use	End of Use	Comment
Copper	7440-50-8	Conductor	39-42					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/ Colorant	21-23	I.D			I.D	Lifecycle concerns around use of halogenated polymers.
Filler	Proprietary	Various components	8.0-10.0					Little to no risk across all product phases
Tinned Copper		Conductor	8.0-9.0					Highly toxic to aquatic organisms; however, this material is acceptable for use in all phases due to limited exposure opportunity to biosphere
Proprietary	Proprietary	Insulation	4.4-6.9					Little to no risk across all product phases
Plasticizer	Proprietary	Jacket	6.0-7.0					CMR - Reproductive toxin (CA Prop 65)
Plasticizer	Proprietary	Jacket	3.5-4.0					Little to no risk across all product phases
Plasticizer	Proprietary	Jacket	1.3-1.8					Little to no risk across all product phases
Aluminum	7429-90-5	Shield Tapes	1.3-1.8					Little to no risk across all product phases
Flame Retardant	Proprietary	Jacket/ Insulation	0.9-1.2					Suspected human carcinogen (CA Prop 65, IARC Group 2B, MAK Group 2)
Proprietary	Proprietary	Jacket	1.0-1.4					Little to no risk across all product phases
PET	25038-59-9	Tape/ Ripcord	0.85-1.0					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.2-0.7					Little to no risk across all product phases
Proprietary	Unknown	Insulation	0.2-0.5					Unknown
Proprietary	Proprietary	Colorant	0.1-0.2					Little to no risk across all product phases
Proprietary	Proprietary	Colorant	0.08-0.12					Little to no risk across all product phases
Proprietary	Proprietary	Jacket/ Colorant	<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	Jacket	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Various colorants	<0.1					CMR -suspected endocrine disruptor and potential reproductive toxicant (CA Prop 65)
Adhesive	Unknown	Shield Tapes	<0.1	I.D				Contains monomer which is a strong sensitizer of the skin and airways and a CMR. However, the risk is acceptable in other product phases after the adhesive is fully cured
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					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				Skin sensitization and aquatic toxicity concerns, however at this concentration and in this use should be acceptable across all product stages.
Red pigment	Proprietary	Colorant	<0.05	I.D			I.D	Lifecycle concerns around use of halogenated polymers.
Red pigment	Proprietary	Colorant	<0.05					CMR - suspected endocrine disruptor and potential reproductive toxicant (CA Prop 65)
Polyolefin	Proprietary	Colorant	<0.05					Little to no risk across all product phases
Adhesive	Unknown	Shield Tapes	<0.05	D				Strong eye irritant. Care should be used during manufacture but once adhesive is fully reacted should be low risk in remaining product phases

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

