



Product Lens

a materials health assessment

COMPANY AND PRODUCT INFO

Issued to	Belden
Description	Fire Alarm Cable, Non-Plenum Solid Bare Copper Conductors, 16 and 18 AWG 2 Conductors, Shielded and Unshielded
For the Products	5220FJxxx, 5320FJxxx, 5220UJxxx, 5320UJxxx
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	Green	Green	Green	Green
PVC	Red (I,D)	Yellow	Yellow	Red (I,D)
Tinned Copper	Yellow	Green	Green	Yellow
Plasticizer	Black	Black	Black	Black
Flame Retardant	Yellow	Green	Green	Green
Polyolefin 1	Green	Green	Green	Green
FR Plasticizer	Red (I,D)	Yellow	Yellow	Red (I,D)
Proprietary	Green	Green	Green	Green
Proprietary	Green	Green	Green	Green

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

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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.
Black	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.

*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	%	MFG	Install	Use	End of Use	Comment
Copper	7440-50-8	Conductor	41-57					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	17-23	I.D			I.D	Lifecycle concerns around use of halogenated polymers.
Tinned Copper		Conductor	0-13					Highly toxic to aquatic organisms; however, this material is acceptable for use in all phases due to limited exposure opportunity to biosphere
Plasticizer	Proprietary	Jacket/ Colorant	5.8-7.9					CMR - Reproductive toxin (CA Prop 65)
Flame Retardant	Proprietary	Jacket	5.1-7.0					Some chronic toxicity concerns, but little risk as used in this product.
Polyolefin 1	Proprietary	Insulation	5.0-5.6					Little to no risk across all product phases
FR Plasticizer	Proprietary	Jacket	1.7-2.3	I.D			I.D	contains organobromine which can pose lifecycle concerns similar to those posed by other halogenated organic compounds.
Proprietary	Proprietary	Jacket	0.08-1.5					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	1.0-1.4					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.9-1.2					Little to no risk across all product phases
Aluminum	7429-90-5	Shield Tapes	0.68-0.86					Little to no risk across all product phases
Flame Retardant	Proprietary	Jacket	0.6-0.7					Suspected human carcinogen - CA Prop 65, IARC Group 2B, MAK Group 2
PET	25038-59-9	Tape/ Ripcord	0.39-0.59					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.24-0.35					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.25-0.35					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.25-0.35					Little to no risk across all product phases
Calcium Carbonate	1317-65-3	Various components	0.15-0.25					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.06-0.12					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.06-0.12					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	>0.1					Little to no risk across all product phases
Proprietary	Proprietary	Colorant	>0.1					Little to no risk across all product phases
Red pigment	Proprietary	Jacket Colorant	>0.1					CMR, Carcinogen (CA Prop 65)
Proprietary	Proprietary	Various colorants	>0.1					CMR -suspected endocrine disruptor and potential reproductive toxicant. (CA Prop 65)
Adhesive	Unknown	Tape	0.07-0.08					Unknown
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.
Proprietary	Proprietary	Colorant	>0.05					Little to no risk across all product phases
Polyolefin 2	Proprietary	Jacket/ Colorant	>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	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	Insulation	>0.05					Little to no risk across all product phases
Titanium Dioxide	13463-67-7	Various components	>0.05					Little to no risk across all product phases

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	Moderate hazard identified and/or potential exposure
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	Highly problematic material containing one or more chemicals classified as CMR and having a plausible route of exposure.

