



Product Lens

a materials health assessment

COMPANY AND PRODUCT INFO

Issued to	Belden
Description	Security / Alarm Cable, Non-Plenum Stranded Bare Copper Conductors, 18 to 22 AWG 2 to 6 Pairs, Shielded and Unshielded
For the Products	5341UExxx, 5341FExxx, 5342FExxx, 5343FExxx, 5345FExxx, 5441FExxx, 5442FExxx, 5445FExxx, 5541FExxx, 5542FExxx, 5543FExxx, 5545FExxx
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 98% 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
Polyolefin 1	Green	Green	Green	Green
PVC	Red (I,D)	Yellow	Yellow	Red (I,D)
Flame Retardant	Yellow	Green	Green	Green
Tinned Copper	Green	Green	Green	Green
FR Plasticizer	Red (I,D)	Yellow	Yellow	Red (I,D)
PET	Green	Green	Green	Green
Plasticizer	Black	Black	Black	Black
Aluminum	Yellow	Green	Green	Yellow

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

Product Lens

a materials health assessment

Material	CAS Number	Role	%	MFG	Install	Use	End of Use	Comment
Copper	7440-50-8	Conductor	58-62					Highly toxic to aquatic organisms; however, this material is acceptable for use in all phases due to limited exposure opportunity to biosphere.
Polyolefin 1	Proprietary	Insulation	9-12					Little to no risk across all product phases
PVC	9002-86-2	Jacket	9-11	I.D			I.D	Lifecycle concerns around use of halogenated polymers.
Flame Retardant	Proprietary	Jacket	6-7					Some chronic toxicity concerns, but little risk as used in this product.
Tinned Copper	7440-50-8	Conductor	4-4.5					Highly toxic to aquatic organisms; however, this material is acceptable for use in all phases due to limited exposure opportunity to biosphere.
FR Plasticizer	Proprietary	Jacket	2.5-3.0	I.D			I.D	Lifecycle concerns around use of halogenated polymers.
PET	25038-59-9	Tape/ Ripcord	1.7-2.0					Little to no risk across all product phases
Plasticizer	Proprietary	Jacket	1.5-1.8					CMR - Reproductive toxin (CA Prop 65)
Aluminum	7429-90-5	Shield Tapes	1.1-1.4					Some neurotoxicity concerns, but little risk as used.
Plasticizer	Proprietary	Jacket	0.6-0.7					Little to no risk across all product phases
Flame Retardant	Proprietary	Jacket	0.3-0.4					Suspected human carcinogen (CA Prop 65, IARC Group 2B, MAK Group 2)
Plasticizer	Proprietary	Jacket	0.2-0.3					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.1-0.2					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.1-0.2	D				Severe damage to eyes possible during manufacturing phase; little to no risk across all other use phases
Proprietary	Proprietary	Jacket	0.1-0.2					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.1-0.2					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	Jacket	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Color chip	<0.1					CMR - suspected endocrine disruptor and potential reproductive toxicant (CA Prop 65)
Proprietary	Proprietary	Insulation	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	<0.1					Little to no risk across all product phases
Adhesive	Unknown	Shield Tapes	<0.1	D				Contains monomer which is a strong sensitizer of the skin and airways and a CMR. However, the risk is acceptable in the other phases after the adhesive is fully cured.
Polyolefin 2	Proprietary	Various components	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05	D			D	Skin sensitization and aquatic toxicity concerns, however at this concentration and in this use should be acceptable across all product stages.
Proprietary	Proprietary	Insulation	<0.05					Little to no risk across all product phases
TiO2	13463-67-7	Jacket	<0.05					Little to no risk across all product phases
Adhesive	Unknown	Shield Tapes	<0.05					Strong eye irritant. Care should be used during manufacture but once adhesive is fully reacted should be low risk in remaining product phases.
Paraffinic Wax	8002-74-2	Jacket	<0.01					Little to no risk across all 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.

