



Product Lens

a materials health assessment

COMPANY AND PRODUCT INFO

Issued to	Belden
Description	Security / Alarm Cable, Plenum Stranded Bare Copper Conductors, 18 to 22 AWG 2 to 9 Pairs, Shielded and Unshielded
For the Products	6341UExxx, 6343UExxx, 6541UExxx, 6547UExxx, 6342FExxx, 6343FExxx, 6345FExxx, 6347FExxx, 6441FExxx, 6443FExxx, 6541FExxx, 6542FExxx, 6543FExxx, 6545FExxx, 6547FExxx
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				
PVC	I,D			I,D
Flame Retardant				
PET				
Tinned Copper				
Plasticizer				
FR Plasticizer	I,D			I,D
Plasticizer				
Aluminum				

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

Sustainability@belden.com

1-800-BELDEN1



*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	48-53					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	15-18	ID			ID	Lifecycle concerns around use of halogenated polymers.
Flame Retardant	Proprietary	Jacket	11-13					Some chronic toxicity concerns, but little risk as used in this product.
PET	25038-59-9	Tape/ Ripcord	4.6-5.1					Little to no risk across all product phases
Tinned Copper		Conductor	4.3-4.8					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	2.1-3.2					Little to no risk across all product phases
FR Plasticizer	Proprietary	Jacket	1.5-2.6	ID			ID	Lifecycle concerns around use of halogenated polymers.
Plasticizer	Proprietary	Insulation	1.8-2.2					Acceptable for use in all product phases
Aluminum	7429-90-5	Shield Tapes	1.1-1.4					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.8-1.1					Little to no risk across all product phases
Flame Retardant	Proprietary	Jacket	0.6-0.8					Suspected human carcinogen (CA Prop 65, IARC Group 2B, MAK Group 2)
Proprietary	Proprietary	Jacket	0.6-0.8					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.5-0.6					CMR - reproductive toxicity
Proprietary	Proprietary	Jacket	0.45-0.55					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.35-0.45					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.35-0.45					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.08-0.4					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.25-0.35					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.25-0.35					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	Insulation	0.1-0.2					High aquatic toxicity so care should be taken during the manufacturing and end of use phases to keep this substance out of the environment
Proprietary	Proprietary	Insulation	0.08-0.13					High aquatic toxicity so care should be taken during the manufacturing and end of use phases to keep this substance out of the environment
Proprietary	Proprietary	Insulation	0.08-0.13					High aquatic toxicity so care should be taken during the manufacturing and end of use phases to keep this substance out of the environment
Proprietary	Proprietary	Insulation	0.08-0.13					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					Inhalation concerns during manufacturing, but little to no risk during product installation, use and end of use.
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.
Proprietary	Proprietary	Jacket/ Insulation	<0.1					CMR - reproductive toxin
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
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.

