



# Product Lens

a materials health assessment

## COMPANY AND PRODUCT INFO

<b>Issued to</b>	<b>Belden</b>
<b>Description</b>	Access Control Cables, Non-Plenum Each Cable Foil Shielded & Banana Peel 538AFS: 3P18+2C18+4C18+4C16 558AFS: 3P22+2C22+4C22+4C18
<b>For the Products</b>	538AFSxxx, 558AFSxxx
<b>Certification Period</b>	April 2017-April 2019
<b>Assessor</b>	<b>MBDC</b> 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
PVC	Red (I,D)	Yellow	Yellow	Red (I,D)
Flame Retardant	Yellow	Green	Green	Green
Polyolefin 1	Green	Green	Green	Green
Tinned Copper	Yellow	Green	Green	Yellow
FR Plasticizer	Red (I,D)	Yellow	Yellow	Red (I,D)
PET	Green	Green	Green	Green
Plasticizer	Black	Black	Black	Black
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](http://ul.com/spg) to view the full, detailed materials ingredient list

[www.belden.com](http://www.belden.com)

[Sustainability@belden.com](mailto: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	49-63					Highly toxic to aquatic organisms; however, this material is acceptable for all phases due to limited exposure opportunity to biosphere
PVC	9002-86-2	Jacket	11-13	I,D			I,D	Lifecycle concerns around use of halogenated polymers.
Flame Retardant	Proprietary	Jacket	8.0-9.0					Some chronic toxicity concerns, but little risk as used in this product.
Polyolefin 1	Proprietary	Insulation	7.0-7.5					Little to no risk across all product phases
Tinned Copper		Conductor	3.7-6.0					Highly toxic to aquatic organisms; however, this material is acceptable for all phases due to limited exposure opportunity to biosphere
FR Plasticizer	Proprietary	Jacket	3.5-4.0	I,D			I,D	Lifecycle concerns around use of halogenated polymers.
PET	25038-59-9	Tape/ Ripcord	2.0-2.5					Little to no risk across all product phases
Plasticizer	Proprietary	Jacket	1.8-2.2					CMR - Reproductive toxin (CA Prop 65)
Aluminum	7429-90-5	Shield	1.0-1.5					Little to no risk across all product phases
Plasticizer	Proprietary	Jacket	0.7-1.0					Little to no risk across all product phases
Flame Retardant	Proprietary	Jacket	0.40-0.50					Suspected human carcinogen (CA Prop 65, IARC Group 2B, MAK Group 2)
Plasticizer	Proprietary	Jacket	0.30-0.40					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.10-0.25					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.10-0.25	D				Severe eye damage possible during manufacturing phase; little to no risk across other phases.
Proprietary	Proprietary	Jacket	0.10-0.25					Little to no risk across all product phases
Processing Aid	Proprietary	Processing aid	0.10-0.25					Little to no risk across all product phases
Proprietary	Proprietary	Various components	0.10-0.25					Little to no risk across all product phases
Titanium Dioxide	13463-67-7	Jacket	0.08-0.15					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
Paraffinic Wax	8002-74-2	Jacket	<0.05					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	Colorant	<0.05					CMR - suspected endocrine disruptor and potential reproductive toxicant (CA Prop 65)
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	Insulation	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Tape	<0.05	I,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	Tape	<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.

