



# Product Lens

a materials health assessment

## COMPANY AND PRODUCT INFO

Issued to	Belden
Description	Access Control Cables, Plenum Rated Each Cable Foil Shielded, Overall Jacket 658AFJ: 3P22+2C22+4C22+4C18
For the Products	658AFJxxx
Certification Period	April 2017-April 2019
Assessor	<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				
PVC	I,D			I,D
Flame Retardant				
Tinned Copper				
FR Plasticizer	I,D			I,D
Proprietary				
Proprietary				
Plasticizer				
Proprietary				

### Exposure Indicator

D = Dermal, Skin
I = Inhalation, air
O = Oral, mouth

\*No Indicator means no potential exposure scenario identified

### Color Ratings

	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.

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

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Material	CAS Number	Role	%	MFG	Install	Use	End of Use	Comment
Copper	7440-50-8	Conductor	40-43					Highly toxic to aquatic organisms; however, this material is acceptable for use across all phases due to limited exposure to biosphere.
PVC	9002-86-2	Jacket/ Insulation/ Colorants	20-22	I.D			I.D	Lifecycle concerns around use of halogenated polymers.
Flame Retardant	Proprietary	Jacket/ Insulation	13-15					Some chronic toxicity concerns, but little risk as used in this product.
Tinned Copper		Conductor	4-6					Highly toxic to aquatic organisms; however, this material is acceptable for use across all phases due to limited exposure to biosphere.
FR Plasticizer	Proprietary	Jacket/ Insulation	3.2-4.2	I.D			I.D	Lifecycle concerns around use of halogenated polymers.
Proprietary	Proprietary	Jacket	1.8-2.7					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	1.5-2.0					Little to no risk across all product phases
Plasticizer	Proprietary	Insulation	1.5-1.8					Acceptable for use in all product phases
Proprietary	Proprietary	Jacket	0.8-1.0					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.8-1.0					Little to no risk across all product phases
PET	25038-59-9	Tape/ Ripcord	0.6-0.7					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.6-0.7					Little to no risk across all product phases
Proprietary	Proprietary	Jacket/ Insulation	0.6-0.7					Suspected human carcinogen - (CA Prop 65, IARC Group 2B, MAK Group 2)
Proprietary	Proprietary	Jacket	0.6-0.7					Little to no risk across all product phases
Proprietary	Proprietary	Jacket/ Insulation	0.2-0.6					Little to no risk across all product phases
Proprietary	Proprietary	Jacket/ Insulation	0.6-0.7					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.5-0.6					Inhalation concerns during manufacturing, but little to no risk during product installation, use and end of use.
Proprietary	Proprietary	Jacket/ Insulation	0.23-0.5					Little to no risk across all product phases
Aluminum	7429-90-5	Tape	0.5-0.6					Some neurotoxicity concerns, but little risk as used in this product
Proprietary	Proprietary	Insulation	0.4-0.5					CMR - reproductive toxicity
Proprietary	Proprietary	Jacket/ Insulation	0.4-0.5					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.3-0.4					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	0.3-0.4					Little to no risk across all product phases
Proprietary	Proprietary	Jacket/ Insulation	0.1-0.2	D				Severe damage to eyes possible during manufacturing phase; little to no risk across all other phases.
Proprietary	Proprietary	Jacket/ Colorants	0.1-0.2					Little to no risk across all product phases
Proprietary	Proprietary	Jacket/ Insulation	0.1-0.2					CMR -reproductive toxin (GreenScreen benchmark 1 chemical)
Proprietary	Proprietary	Jacket/ Insulation	<0.1					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	Jacket/ Insulation	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Jacket/ Insulation	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	<0.1					High aquatic toxicity so care should be taken during the manufacturing and end of use phases to keep this substance out of the environment
Titanium Dioxide	13463-67-7	Various components	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Various colorants	<0.05					CMR - suspected endocrine disruptor and potential reproductive toxicant (CA Prop 65)
Polyethylene	9002-88-4	Jacket/Insulation Colorant	<0.05					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	Tape	<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
Calcium Carbonate	1317-65-3	Various components	<0.05					Inhalation concerns around mining/processing, but in cable production, installation, use, and end of use there is little to no risk.

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Proprietary	Proprietary	Various colorants	<0.05	I,D			I,D	contains organochlorine which can pose lifecycle concerns similar to those posed by PVC.
Proprietary	Proprietary	Insulation	<0.05					High aquatic toxicity so care should be taken during the manufacturing and end of use phases to keep this substance out of the environment
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

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