

13th April 2026

Distribution: Companies with valid SGBP certificates for Cable products

REVISION OF CERTIFICATION CRITERIA FOR CABLE PRODUCTS

Background

1 This circular serves to inform the industry of updates to the Cables criteria under the Singapore Green Building Product (SGBP) certification scheme. It provides an overview of the changes, while the full criteria will be made available upon submission of applications via the SGBC Online portal.

Revised Scope for Cables Criteria

2 The scope for **Network Cable PVC** and **Power Cable LSOH** criteria have been consolidated into the **Network Cable** and **Power Cable** criteria respectively, while the scope for the **Optical Fiber Cable** remains unchanged.

Overview of Changes

Changes applicable to Power Cable category only

3 The **DC Resistance** requirement will be introduced to evaluate the maximum conductor DC resistance, supported by IEC 60228 test reports demonstrating compliance with the specified resistivity values for each tick-rating.

The respective tick ratings are represented in the table below:

New Section B Requirement: Power Cables	
Tick Rating	DC Resistance (In accordance to IEC 60288)
1	$1.90 \times 10^{-8} \Omega \cdot m < \rho \leq 1.96 \times 10^{-8} \Omega \cdot m$
2	$1.86 \times 10^{-8} \Omega \cdot m < \rho \leq 1.90 \times 10^{-8} \Omega \cdot m$
3	$1.81 \times 10^{-8} \Omega \cdot m < \rho \leq 1.86 \times 10^{-8} \Omega \cdot m$
4	$\rho \leq 1.81 \times 10^{-8} \Omega \cdot m$

No other changes have been made for the resistance and tick ratings for Network and Optical Fiber Cable.

Changes applicable to Network Cable, Power Cable, and Optical Fiber Cable categories

4 The **Heavy metal** requirement has been revised by including 1, 3- Butadiene in its evaluation scope to ensure that health and safety performances of synthetic rubber, plastics and polymer-based components are thoroughly addressed.

5 The **Life Span** requirement will be mandatory for Network cables, to assess the performance of the cables during its lifespan. The **Manufacturer Product Warranty** requirement which was previously a supplementary requirement for Network cables will be removed and be consolidated into the **Life span** requirement all Cables.

6 The requirements for **Fume, Flame, and Fire retardant hazard tests**, which is currently a mandatory requirement, will be consolidated into the **Low Smoke Zero Halogen (LSZH)** requirement and will be made supplementary.

7 The **Carbon Footprint Report** requirement will be revised into the **Environmental Impact Report** requirement, covering carbon accounting along with key impact indicators such as global warming potential and water pollution. Additionally, **Product Manufacturing By-Product, Recyclability and End-of-Life**, requirements have been added as supplementary requirements.

Implementation Timeline

8 The revised and consolidated criteria will take effect from 13th April 2026 and applies to all application submitted on or after this date.

9 Existing SGBP certificates for all products already certified under the Cable categories will remain valid until their expiry date.

For Clarification

10 We would appreciate if you could convey the contents of this circular to relevant members of your organisation. For any queries concerning this circular, please do not hesitate to contact SGBC at certification@sgbc.sg.

Appendix: Summary of Changes

Section	Requirement	Network Cable category	Power Cable category	Optical Fiber Cable category
A	Avoidance of Hazardous Substance (Heavy metal)	<i>No change.</i>	<i>The evaluation of 1,3-Butadiene will now be incorporated into the existing Heavy Metal requirement.</i>	<i>The evaluation of 1,3-Butadiene will now be incorporated into the existing Heavy Metal requirement.</i>
	Life Span	<i>A new requirement to asses performance of the cables.</i>	<i>No change.</i>	<i>No change.</i>
	Fume Retardant Hazard Test (IEC 60754)	<i>The requirement will be removed and consolidated into Low Smoke Zero Halogen (LSZH) requirement.</i>	<i>Not Applicable.</i>	<i>Not Applicable.</i>
	Flame Retardant Hazard Test (IEC 60332)	<i>The requirement will be removed and consolidated into the Low Smoke Zero Halogen (LSZH) requirement.</i>	<i>Not Applicable.</i>	<i>Not Applicable.</i>
	Fire Retardant Hazard Test (IEC 60754)	<i>Not Applicable.</i>	<i>The requirement, has been removed and consolidated into the Low Smoke Zero Halogen (LSZH) requirement.</i>	<i>Not Applicable.</i>
B	DC Resistance	<i>Not Applicable.</i>	<i>A new requirement to evaluate the maximum conductor DC resistance, verified by IEC 60228 test reports demonstrating compliance with the specified resistivity values for each tick-rating.</i>	<i>Not Applicable.</i>
C	Environmental Impact Report	<i>This existing requirement will consolidate the Carbon footprint Report requirement covering carbon accounting along with key impacts such as global warming potential and water pollution.</i>		
	Carbon footprint Report	<i>This existing requirement will be removed and consolidated into the existing Environmental Impact Report requirement</i>		

Manufacturer Product Warranty	<i>The requirement will be removed and consolidated into the Life Span requirement in Section A to be used as conditional documentation.</i>	<i>Not Applicable.</i>	<i>Not Applicable.</i>
Manufacturing By-Product	<i>Added in as a supplementary requirement to promote lifecycle sustainability.</i>	<i>The requirement will be Added in as a supplementary requirement to promote lifecycle sustainability.</i>	<i>Added in as a supplementary requirement to promote lifecycle sustainability.</i>
Recyclability	<i>Added in as a supplementary requirement to promote lifecycle sustainability.</i>	<i>No change.</i>	<i>Added in as a supplementary requirement to promote lifecycle sustainability.</i>
End-of-Life	<i>Added in as a supplementary requirement to promote lifecycle sustainability.</i>	<i>No change.</i>	<i>No change.</i>
Low Smoke Zero Halogen (LSZH)	<i>This new requirement will consolidate the existing Fume, Flame, and Fire Retardant Hazard Tests and will include compliance criteria to ensure non-toxicity, minimal smoke emission, and reduced halogen-related hazards during fire incidents.</i>		