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## Halogen free for maximum safety

New wiring ducts: guaranteed reliability in the event of fire



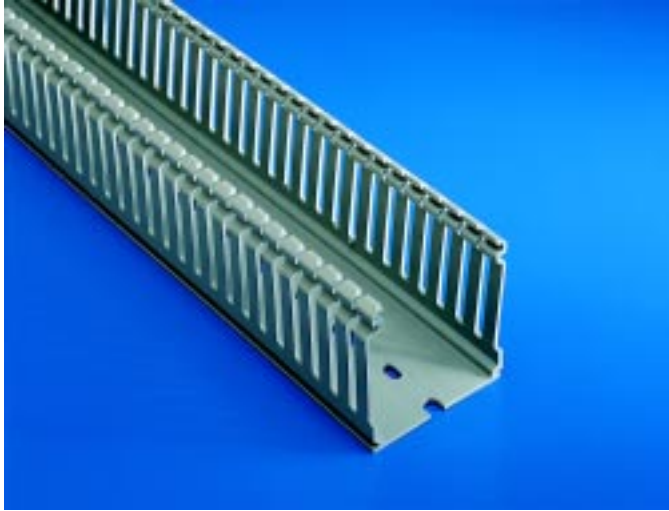
Emissions of corrosive acids and toxic fumes produced by traditional plastic materials are a serious risk to the safety of people and things in the event of fire, especially when the application context requires special preventive measures dictated by the particular allocations of usage or specific conformations of the areas.

ABB SACE halogen free wiring ducts satisfy these safety requirements with their specific constructional and functional characteristics.



**ABB**

# Halogen free for maximum safety



## Manufacturing material

The new ABB SACE wiring ducts are made in **halogen free** thermoplastic material in compliance with **Standard VDE 0472 Part 815**, with Br + Cl < 0.2% and F < 0.1%.

They also guarantee self-extinguishing characteristics under Standard UL 94 V0 and resistance to abnormal heat and fire up to a temperature of 850 °C (glow wire test) under Standard IEC 695-2-1. Dimensional stability is between **- 40** and **+100 °C**.

The wiring ducts are manufactured in compliance with the new **Standard EN 50085-2-3**. Their color is RAL 7035 gray.



## Wide range of offer

The range of ABB wiring ducts, suitable for applications with a rated voltage up to 1000V in DC and 1500 in AC, includes 22 different combinations with bases measuring 15 - 25 - 40 - 60 - 80 - 100 - 120 mm and heights of 17 - 30 - 40 - 60 - 80 mm.

All are available with 8/12 and 4/6 mm slots.



## Performance in the event of fire

### *Emission of opaque fumes*

In the event of fire it is extremely important that the level of opacity of the fumes emitted during the first four minutes is as low as possible so that people can find the emergency exits.

In ABB SACE halogen free wiring ducts this level corresponds to **Dsm 217** (1.8 mm) and **V0F4 95** (1.8 mm) in conformity with Standards NF X10-702 (reference NF F16-101), ASTM E-662, NFPA 258 and IEC 60695-6-30.

### *Emission of toxic fumes*

Toxic gases produced during a fire are not only a serious health risk but also cause serious damage and problems to machines and devices. Since, in this case also, it is fundamental to limit emission levels as much as possible, ABB SACE halogen free wiring ducts ensure toxicity indices of **8.2** according to CEI Standard 20-37 part 7 and **23.3** according to Standards NF X70-100 and NF F16-101.

On the basis of the values obtained during both opacity and toxicity tests carried out on the emitted fumes, the category allocated to the material used in manufacturing the halogen free wiring ducts is **F1** according to Standard NF F16-101.

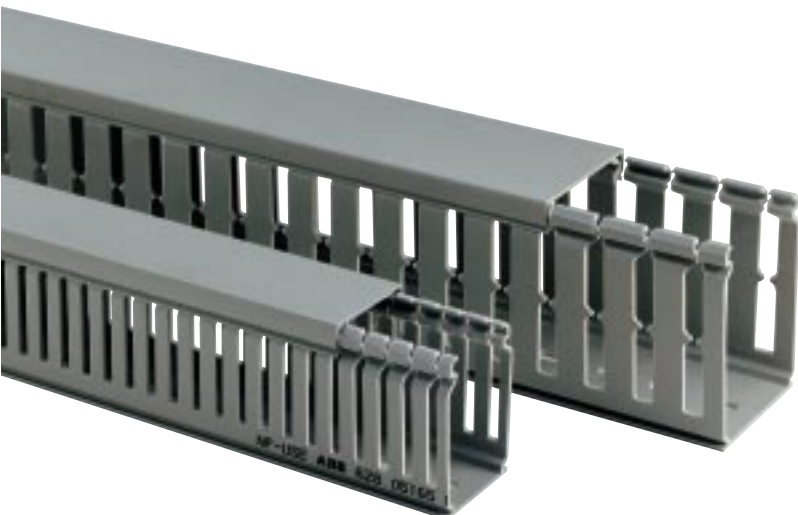
ABB SACE halogen free wiring ducts are remarkable not only for their high quality standards and technical characteristics but also for the variety of models available and their ease of installation.



## Easy to install

As a result of the care taken in making each of their components, operations to install ABB SACE halogen free wiring ducts are particularly easy:

- the rounded molding of the ribs makes the cover easy to open and close, ensuring that it clips on securely;
- the size and resilience of the ribs ensure that repeated splayings can be made during the wiring phase;
- the knockout at the base of the ribs and wall makes them easy to remove if branch connections are made;
- controlled splaying of the sides guarantees a perfect seal on the cover even in vertical sections or under high temperatures;
- in the 80-mm high ducts, the cable retainer moldings installed half-way along the straight section of the ribs allow the wires housed inside the ducts to be laid rationally and neatly.



## Halogen free wiring ducts

Code - Dimensions WxH (mm) Color	no. of items unit/pack
<b>- 8/12 mm slot</b>	
1SL9019A00 15 x 17 RAL 7035 gray	60
1SL9033A00 25 x 30 RAL 7035 gray	60
1SL9035A00 40 x 30 RAL 7035 gray	60
1SL9037A00 60 x 30 RAL 7035 gray	60
1SL9043A00 25 x 40 RAL 7035 gray	60
1SL9045A00 40 x 40 RAL 7035 gray	60
1SL9047A00 60 x 40 RAL 7035 gray	60
1SL9049A00 80 x 40 RAL 7035 gray	60
1SL9051A00 100 x 40 RAL 7035 gray	60
1SL9053A00 120 x 40 RAL 7035 gray	60
1SL9063A00 25 x 60 RAL 7035 gray	60
1SL9065A00 40 x 60 RAL 7035 gray	60
1SL9067A00 60 x 60 RAL 7035 gray	60
1SL9069A00 80 x 60 RAL 7035 gray	60
1SL9071A00 100 x 60 RAL 7035 gray	60
1SL9073A00 120 x 60 RAL 7035 gray	60
1SL9083A00 25 x 80 RAL 7035 gray	60
1SL9085A00 40 x 80 RAL 7035 gray	60
1SL9087A00 60 x 80 RAL 7035 gray	60
1SL9089A00 80 x 80 RAL 7035 gray	60
1SL9091A00 100 x 80 RAL 7035 gray	60
1SL9093A00 120 x 80 RAL 7035 gray	60

Code - Dimensions WxH (mm) Color	no. of items unit/pack
<b>- 4/6 mm slot</b>	
1SL9119A00 15 x 17 RAL 7035 gray	60
1SL9133A00 25 x 30 RAL 7035 gray	60
1SL9135A00 40 x 30 RAL 7035 gray	60
1SL9137A00 60 x 30 RAL 7035 gray	60
1SL9143A00 25 x 40 RAL 7035 gray	60
1SL9145A00 40 x 40 RAL 7035 gray	60
1SL9147A00 60 x 40 RAL 7035 gray	60
1SL9149A00 80 x 40 RAL 7035 gray	60
1SL9151A00 100 x 40 RAL 7035 gray	60
1SL9153A00 120 x 40 RAL 7035 gray	60
1SL9163A00 25 x 60 RAL 7035 gray	60
1SL9165A00 40 x 60 RAL 7035 gray	60
1SL9167A00 60 x 60 RAL 7035 gray	60
1SL9169A00 80 x 60 RAL 7035 gray	60
1SL9171A00 100 x 60 RAL 7035 gray	60
1SL9173A00 120 x 60 RAL 7035 gray	60
1SL9183A00 25 x 80 RAL 7035 gray	60
1SL9185A00 40 x 80 RAL 7035 gray	60
1SL9187A00 60 x 80 RAL 7035 gray	60
1SL9189A00 80 x 80 RAL 7035 gray	60
1SL9191A00 100 x 80 RAL 7035 gray	60
1SL9193A00 120 x 80 RAL 7035 gray	60



UNI EN ISO 9001

In consideration of modifications to Standards and materials, the characteristics and overall dimensions indicated in this catalogue may be considered binding only following confirmation by ABB SACE

1SLC811002B0901 - 10/02  
Printed in Italy  
Tipografia

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