

## Manufacturer Information

### - coaxial connectors for the railway industry

#### DIN EN 45545-2 (Fire behaviour)

An essential goal of DIN EN 45545 is to reduce the dangers for passengers and personnel in the event of a train fire, so that passengers are highly likely to be able to get to safety without external help.

DIN EN 45545-2 defines the "fire performance requirements" of materials and components used in rail vehicles. Depending on the hazard level, test methods, test conditions and requirements for fire behavior are defined.

The requirements placed on the materials and components are dependent on:

- the composition of the materials and components,
- the application environment (operating class and type class),
- the installation location (e.g. distance to a component),
- the place of use (indoor or outdoor),
- the exposed area, combustible mass and thickness, and
- the application (e.g. furniture).

A systematic approach is recommended to determine which requirements you place on the products:

1. determine the application environment
2. determine the hazard level
3. check whether it is a listed or non-listed component
4. determine the appropriate material requirements and appropriate test methods

#### Our coaxial connectors

Our coaxial connectors belong to the category of non-listed components. Since our connectors consist primarily of non-combustible materials, the combustible mass is usually less than 10 g and therefore they do not have to be considered for fire protection if they are not in contact with other non-listed components.

However, if you use our connectors at a horizontal distance of <20mm and a vertical distance of <200mm to other non-listed components, grouping rules apply. This is the case, for example, when a large number of connectors are connected to a panel. Your requirements are therefore decisive for the selection of the correct grouping rule and thus also for a suitable connector.

If the quantity of plastic used in the grouping does not exceed the specified limits in the overall approval, the connectors can be used without having to meet additional fire protection requirements.

Our coaxial connectors are fabricated with mainly non-combustible components. Therefore, we have a large number of coaxial connectors that are suitable for trains of all design classes.

We will be pleased to assist you in selecting the right connector for your requirements.