NetworksCentre.

CPR EUROCLASS CLASSIFICATION

The designation of the fire reaction characteristics of electrical cables is based on a code that indicates their performance. This code specifies the Euroclass and, if applicable, additional classifications

Class: satisfies the non-propagation of the flame or of the fire, and emitted heat limits

Reduced smoke emission and transmittance of over 60%

Flammable particles: no burning droplets or particles that persist for more than 10 s during the 1200 s of the test

Reduced acidity and corrosiveness of the emitted gases

Fire propagation and heat emission performance, cable class (A_{ca}, $B1_{ca}$, $B2_{ca}$, C_{ca}, D_{ca}, E_{ca}, F_{ca})

Aca: They do not contribute to the fire
B1ca - B2ca: Minimum contribution to the fire
Cca - Dca - Eca: Combustible, they contribute the fire from lower to higher contribution
Fca: Undetermined contribution properties

Smoke emission properties (s1, s1a, s1b, s2, s3)

This classification provides information about the opacity of the emitted smoke.

s1: Little smoke production and slow smoke propagation
s1a: Transmittance >80%
s1b: Transmittance >60% and <80%
s2: Average smoke production and propagation
s3: None of the above

Burning droplets/particles (d0, d1, d2)

d0: No burning droplets or particles
d1: No burning droplets or particles that last more than 10 seconds
d2: None of the above

Acidity performance (a1, s2, a3) in addition applying the test described in standard UNE-EN 50267-2-3

a1: Conductivity < 2.5 µS/mm and pH > 4.3)
a2: Conductivity < 10 µS/mm and pH > 4.3)
a3: None of the above