

CEI EN 50289-4-16



CEI classification: **46-181**

Cables for communication systems - Specifications for test methods
Part 4-16: Methods for environmental tests
- Circuit integrity during fire

PUBLISH DATE: 2017-07
EFFECTIVE DATE: 2017-08
PAPER: 15566 E
COMMITTEE: CEI-CT46

This European Standard specifies criteria for copper cables and telecommunications cables, which are designed to have intrinsic fire resistance and are intended to be used as emergency circuits for alarm, lighting and communication purposes. In particular, its content has been obtained using the test method described in EN 50200 and/or EN 50577, which must therefore be used in conjunction with the standard in question for the objective of adaptation to the new EU Regulation on Construction Products (CPR). The Standard belongs to the list of harmonized standards for the purposes of Directive 305/2011.

IEC 50289-4-16 (2nd Edition, 2017) is a standard that defines the method for verifying the maintenance of circuit integrity under fire conditions for communication and control cables with metallic conductors. It is the Italian version of EN 50289-4-16:2016.

The standard applies to:
telecommunications cables;
data cables;
coaxial cables;
control and signaling cables.

Registered office

eRaya Srl, Via dell'Arcoveggio 49/5, 40129 Bologna (BO), P.I.: 04059431207, REA BO 565939

Headquarters

eRaya Srl, Via Enrico Fermi snc, 60027 Osimo (AN), Tel: +39 071 8760563, email: info@eraya.it, PEC: eraya@pec.eraya.it

The objective is to verify that the cable continues to ensure electrical continuity during a fire when it is intended to power or connect emergency systems, such as:

fire detection systems;
alarm systems;
emergency lighting;
emergency communication systems.

Main Contents

The standard describes:

the criteria for assessing circuit integrity;
the preliminary tests;
the test method using standards EN 50200 and/or EN 50577;
the circuit's power supply conditions during the test;
the acceptance criteria;
the minimum content of the test report.

It does not introduce its own fire exposure method, but refers to the procedures defined in standards EN 50200 and EN 50577.

Test Results

The cable is classified as suitable if, during the test:

- it maintains circuit continuity;
- no interruptions occur that could compromise the system's operation;
- it meets the requirements of the reference test.

Registered office

eRaya Srl, Via dell'Arcoveggio 49/5, 40129 Bologna (BO), P.I.: 04059431207, REA BO 565939

Headquarters

eRaya Srl, Via Enrico Fermi snc, 60027 Osimo (AN), Tel: +39 071 8760563, email: info@eraya.it, PEC: eraya@pec.eraya.it