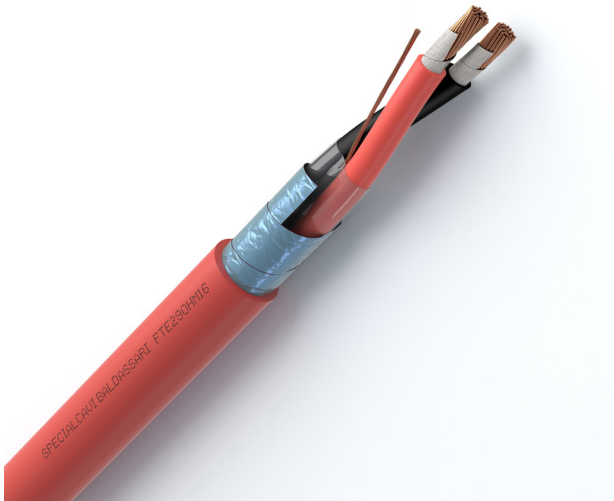


FTE29OHM16 G4^{PH120}

Marking: <meters> CE SPECIALCAVI BALDASSARI FTE29OHM16 PH120 <formation> EN 50200 CEI 20-105 P.Q.A. GUAINA 0.6/1KV <lot> <year> CCA-S1B,D1,A1



MANUFACTURING CHARACTERISTICS

Conductor:

Flexible bare copper, class 5

Fire protection:

Mica tape

Insulation:

LSZH cross-linked compound, E29 type

Stranding:

Cores twisted/stranded in concentric layers

Wrapping and protection:

Overall polyester tape

Shield:

Overall aluminium/polyester tape with flexible bare copper drain-wire

Outer sheath:

LSZH thermoplastic compound, M16 type

Colours:

Cores identification:

2 cores = Red + Black

Outer sheath colour:

Red (based on RAL 3000)

ELECTRICAL CHARACTERISTICS

Operating voltage: 100/100V

Outer sheath operating voltage: 600/1000V

Testing voltage: 2000V

Min. insulation resistance at 20°C > 100 MΩxKm

APPLICATIONS

Cable conforms to the requirements in the Construction Products Regulations (CPR EU 305/11), aimed at limiting the production and diffusion of fire and smoke.

LSZH shielded cable for signalling and command, fire-resistant (PH120) according to CEI 20-105:2024 P.Q.A., CEI UNEL 35338 P.Q.A. and UNI 9795:2021 with outer sheath with reinforced thickness. It can be used for connecting fixed automatic detection and manual fire alarm signalling systems, whether or not connected to fire extinguishing systems (both active and passive types), planned to be installed in buildings, regardless of their intended use. Suitable for links between fire-fighting systems and actuators (e.g. electric locks, smoke and heat natural evacuators, electromagnets for releasing fire doors, etc.) with 12V and 24V AC operating voltage.

This cable can also be installed in coexistence with 450/750V or 0.6/1kV power cables that supply 230/400V nominal voltage loads.

STANDARDS

CEI 20-29 IEC 60228

CEI 20-11

CEI EN 60332-3-24 Cat.C IEC 60332-3-24 Cat.C

CEI 20-105:2024 P.Q.A. CEI UNEL 35338 P.Q.A.

CEI 20-36/4-0 EN 50200 (Test 120 min. PH120)

UNI 9795:2021

REACTION TO FIRE CLASS

EN 50575:2016 C_{ca} - s1b, d1, a1

TEMPERATURES

Minimum working temperature: -40°C

Maximum working temperature: +90°C

Maximum short circuit temperature: +250°C

LAYING CONDITIONS



Minimum installation temperature 0°C



Min. bending radius d14



Max tensile stress: 50 N/mm² of the copper cross-section



Fixed laying



In duct or cable tray



The cable stored/placed outside must be protected from UV rays



In buried trough



In buried duct

ON REQUEST

- Customized cores identification/outer sheath colours

FTE29OHM16 G4^{PH120}

** APPLICATIONS

If stored/placed outdoors, the cable must be protected from UV rays.
 Outdoors laying is permitted with UV protection; underground laying is permitted in cable duct.

| PART NUMBER [n°] | FORMATION [n° x mm ²] | OUTER DIAMETER ¹ [mm] | WEIGHT ¹ [kg/km] | MAX ELECTRICAL RESISTANCE AT 20°C [Ohm/km] | CAPACITANCE | | INDUCTANCE L [μH/m] |
|---------------------|--------------------------------------|-------------------------------------|--------------------------------|---|--------------------------|----------------|---------------------------|
| | | | | | C _c [pF/m] | C _s | |
| *RSH10002G4 | 2 X 1.00 | 8.9 | 110 | 19.50 | 63 | 126 | 0.8 |
| *RSH15002G4 | 2 X 1.50 | 9.8 | 135 | 13.30 | 67 | 134 | 0.7 |
| *RSH25002G4 | 2 X 2.50 | 11.3 | 185 | 7.98 | 79 | 158 | 0.7 |

C_c: approx. cond./cond. capacitance, measured at 800 kHz frequency between two cores, leaving the other terminals not involved in the test floating
 C_s: approx. cond./shield capacitance, measured at 800 kHz frequency between core and shield, leaving the other terminals not involved in the test floating
 L: approx. inductance, measured at 800 kHz frequency between two adjoining cores in short circuit, leaving the other terminals not involved in the test floating
¹ According to in-stock availability, cable which must be produced on request and minimum quantity
² Unless otherwise specified, the values for weight and diameter are indicative.
 Note: other values, if available and released for publication, are available on request.