



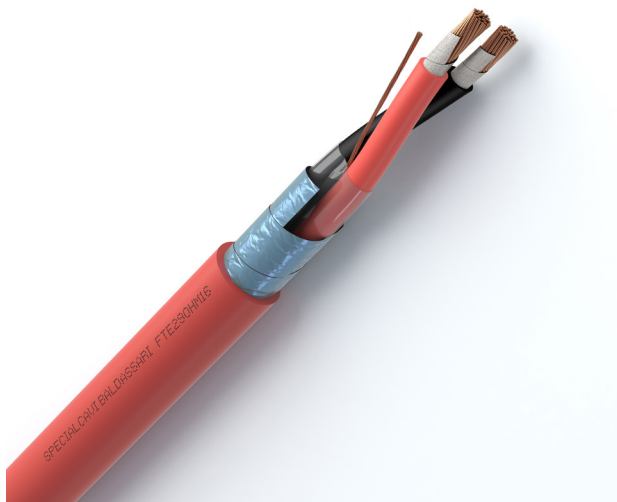
SPECIALCAVI BALDASSARI

FIRE RESISTANT

# FTE29OHM16 PH120



Marking: <meters> CE SPECIALCAVI BALDASSARI FTE29OHM16 PH120 100/100V <formation> EN 50200 CEI 20-105 C-4 (U<sub>0</sub>=400V) <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

4 cores = Red + Black + White + Blue

*Outer sheath colour:*

Red (based on RAL 3000)

## 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 CEI UNEL 35338

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

CEI UNEL 36762

UNI 9795:2021

## REACTION TO FIRE CLASS

**EN 50575:2016 C<sub>ca</sub> - s1b, d1, a1**

## TEMPERATURES

Minimum working temperature: -25°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/mm<sup>2</sup> of the copper cross-section



Fixed laying



In duct or cable tray



The cable stored outside must be protected from UV rays

## ON REQUEST

- Customized cores identification/outer sheath colours
- Reinforced outer sheath for underground laying in duct

## ELECTRICAL CHARACTERISTICS

Operating voltage: 100/100V

Outer sheath operating voltage: 100/100V C-4(U<sub>0</sub>=400V)

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, CEI UNEL 35338 and UNI 9795:2021. 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, if it's used to supply power to category 0 systems (nominal voltage less than or equal to 50V AC, or 120V non-inverted DC), it can also be installed in coexistence with 450/750V or 0.6/1kV power cables that supply 230/400V nominal voltage loads.

# FTE29OHM16<sup>PH120</sup>

## \*\* APPLICATIONS

If stored outdoors, the cable must be protected from UV rays. Underground laying is not permitted, even if protected.

PART NUMBER	FORMATION	OUTER DIAMETER <sup>1</sup>	WEIGHT <sup>1</sup>	MAX. ELECTRICAL RESISTANCE AT 20°C	CAPACITANCE		INDUCTANCE
[n°]	[n° x mm <sup>2</sup> ]	[mm]	[kg/km]	[Ohm/km]	C <sub>c</sub>	C <sub>s</sub>	L
					[pF/m]		[μH/m]
RSH10002	2 X 1.00	7.8	80	19.50	63	126	0.8
*RSH10004	4 X 1.00	9.2	130	19.50	63	126	0.8
RSH15002	2 X 1.50	8.7	100	13.30	67	134	0.7
*RSH15004	4 X 1.50	10.2	165	13.30	67	134	0.7
RSH25002	2 X 2.50	10.0	145	7.98	79	158	0.7
*RSH25004	4 X 2.50	11.8	240	7.98	79	158	0.7
*RSH40002	2 X 4.00	12.0	205	4.95	85	170	0.7
*RSH60002	2 X 6.00	13.5	270	3.30	90	180	0.7

C<sub>c</sub>: approx. cond./cond. capacitance, measured at 800 kHz frequency between two cores, leaving the other terminals not involved in the test floating  
C<sub>s</sub>: 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  
<sup>1</sup> According to in-stock availability, cable which must be produced on request and minimum quantity  
<sup>2</sup> Unless otherwise specified, the values for weight and diameter are indicative.  
Note: other values, if available and released for publication, are available on request.