



# FTS290M16 EVC PH120



Marking: <meters> CE SPECIALCAVI BALDASSARI FTS290M16 EVC 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 thermoplastic compound, S29 type

### Stranding:

Cores twisted/stranded in concentric layers

### Outer sheath:

LSZH thermoplastic compound, M16 type

### Colours:

#### Cores identification:

2 cores = Red + Black

4 cores = Red + Black + White + Blue

#### Outer sheath colour:

Violet (based on RAL 4005)

## 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 cable for voice evacuation systems, fire-resistant (PH120) according to CEI 20-105:2024, CEI UNEL 35338 and UNI 9795:2021. 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. It doesn't exclude problems from possible electromagnetic interferences.

If stored outdoors, the cable must be protected from UV rays.

Underground laying is not permitted, even if protected.

## 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

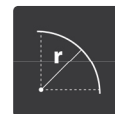
Maximum working temperature: +70°C

Maximum short circuit temperature: +160°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

# FTS29OM16 EVC PH120

| PART NUMBER | FORMATION               | OUTER DIAMETER <sup>1</sup> | WEIGHT <sup>1</sup> | MAX. ELECTRICAL RESISTANCE AT 20°C |
|-------------|-------------------------|-----------------------------|---------------------|------------------------------------|
| [n°]        | [n° x mm <sup>2</sup> ] | [mm]                        | [kg/km]             | [Ohm/km]                           |
| RSV10002    | 2 X 1.00                | 7.5                         | 90                  | 19.50                              |
| *RSV10004   | 4 X 1.00                | 9.0                         | 135                 | 19.50                              |
| RSV15002    | 2 X 1.50                | 8.4                         | 115                 | 13.30                              |
| *RSV15004   | 4 X 1.50                | 10.0                        | 175                 | 13.30                              |
| RSV25002    | 2 X 2.50                | 9.6                         | 160                 | 7.98                               |
| *RSV25004   | 4 X 2.50                | 11.5                        | 245                 | 7.98                               |
| *RSV40002   | 2 X 4.00                | 11.6                        | 240                 | 4.95                               |
| *RSV60002   | 2 X 6.00                | 13.2                        | 325                 | 3.30                               |

<sup>\*</sup> According to in-stock availability, cable which must be produced on request and minimum quantity

<sup>1</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.