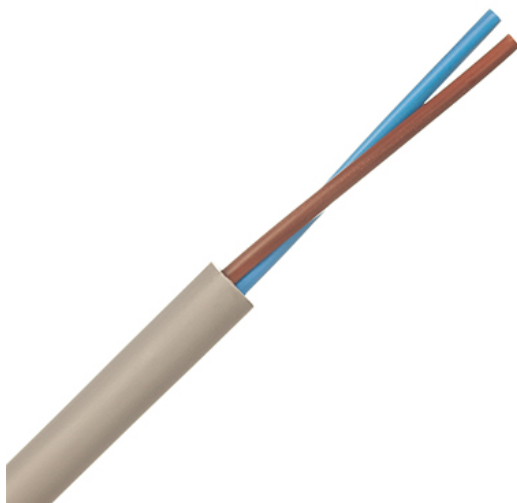


# FM90Z1 450/750V

Marking: CE <meters> SPECIALCAVI BALDASSARI FM90Z1 <formation> 450/750V CEI EN 60332-3-24 <year> <lot> MADE IN ITALY



## MANUFACTURING CHARACTERISTICS

### Core:

Stranded flexible bare copper conductor, class 5

### Insulation:

LSZH thermoplastic compound

### Stranding:

Cores twisted/stranded in concentric layers

### Outer sheath:

LSZH thermoplastic compound

### Colours:

*Cores identification:*

CEI UNEL 00722 - 00725 (HD 308 S2 - EN 50334)

*Outer sheath colour:*

Grey

## ELECTRICAL CHARACTERISTICS

**Cores operating voltage:** 450/750V

**Outer sheath operating voltage:** 450/750V

**Testing voltage:** 2500 V

## STANDARD

CEI 20-29 IEC 60228

CEI 20-11 EN 50363

CEI 20-35 IEC 60332-1-2

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

CEI 20-37 IEC 60754 IEC61034 CEI 20-38 P.Q.A.

CEI UNEL 36762

## TEMPERATURE

**Minimum working temperature:**

-40°C

**Maximum working temperature:**

+70°C

**Maximum short circuit temperature:**

+160°C

## ON REQUEST

- Galvanized steel braid armour
- Outer sheath with 0.6/1kV voltage insulation

## LAYING CONDITIONS



Minimum installation temperature 0°C



Laying operation bending radius d10



Max tensile stress: 50N/mm<sup>2</sup> of the copper cross-section



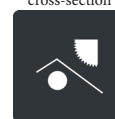
Fixed laying



In open air



In duct or cable tray



The cable stored outside must be protected from UV rays

## APPLICATIONS

Power and signalling cable with low emission of smoke and toxic gases.

Suitable for environments with high fire hazards risk, where it's essential to guarantee the safety of people and preserve systems and equipments from the corrosive gases (e.g. schools, hospitals, hotels, supermarkets, cinemas, theatres, discotheques, public offices).

For indoor installations in normal or wet environments and, temporarily, outside. It can be installed on platforms, in pipes, conduits, and similar systems.

**Not suitable for underground laying, even if protected.**

450/750V **FM90Z1**

PART NUMBER	FORMATION	OUTER Ø <sup>1</sup>	WEIGHT <sup>1</sup>	MAX ELECTRICAL RESISTANCE AT 20°C
[n°]	[n° x mm²]	[mm]	[kg/km]	[Ohm/km]
FMZ10002U	2 X 1.00	5.7	53	19.50
FMZ10003	3 G 1.00	6.0	64	19.50
FMZ10004	4 G 1.00	6.6	80	19.50
FMZ10005	5 G 1.00	7.2	97	19.50
FMZ10007	7 G 1.00	8.0	119	19.50
FMZ10010	10 G 1.00	10.5	181	19.50
FMZ10012	12 G 1.00	10.5	194	19.50
FMZ10014	14 G 1.00	11.3	228	19.50
FMZ10016	16 G 1.00	11.9	258	19.50
FMZ10019	19 G 1.00	12.7	302	19.50
FMZ10024	24 G 1.00	15.1	394	19.50
FMZ150002U	2 X 1.50	6.3	68	13.30
FMZ15003	3 G 1.50	6.7	84	13.30
FMZ15004	4 G 1.50	7.3	104	13.30
FMZ15005	5 G 1.50	8.1	129	13.30
FMZ15007	7 G 1.50	8.9	156	13.30
FMZ15010	10 G 1.50	12.0	246	13.30
FMZ15012	12 G 1.50	12.0	265	13.30
FMZ15014	14 G 1.50	12.7	339	13.30
FMZ15016	16 G 1.50	13.4	345	13.30
FMZ15019	19 G 1.50	14.4	407	13.30
FMZ15024	24 G 1.50	17.4	544	13.30
FMZ25002U	2 X 2.50	7.6	104	7.98
FMZ25003	3 G 2.50	8.1	129	7.98
FMZ25004	4 G 2.50	8.9	162	7.98
FMZ25005	5 G 2.50	10.0	204	7.98
FMZ40002U	2 X 4.00	9.4	162	4.95
FMZ40003	3 G 4.00	9.9	200	4.95
FMZ40004	4 G 4.00	11.0	254	4.95
FMZ40005	5 G 4.00	12.1	312	4.95
FMZ60002U	2 X 6.00	11.0	228	3.30
FMZ60003	3 G 6.00	11.7	287	3.30
FMZ60004	4 G 6.00	13.0	366	3.30
FMZ60005	5 G 6.00	14.5	456	3.30

<sup>1</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.