



FM9OZ1



Marking: <meters> CE 0987 SPECIALCAVI BALDASSARI FM9OZ1 <formation> 450/750V IEC 60332-3-24 <lot> <year> CCA-S1A,D0,A1



STANDARDS

CEI 20-29 IEC 60228
 CEI 20-11
 CEI EN 60332-3-24 Cat.C IEC 60332-3-24 Cat.C
 CEI UNEL 36762

REACTION TO FIRE CLASS

EN 50575:2016 C_{ca} - s1a, d0, a1

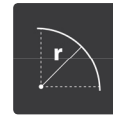
TEMPERATURES

Minimum working temperature: -40°C
 Maximum working temperature: +70°C
 Maximum short circuit temperature: +160°C

LAYING CONDITIONS



Minimum installation temperature 0°C



Min. bending radius d/8

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

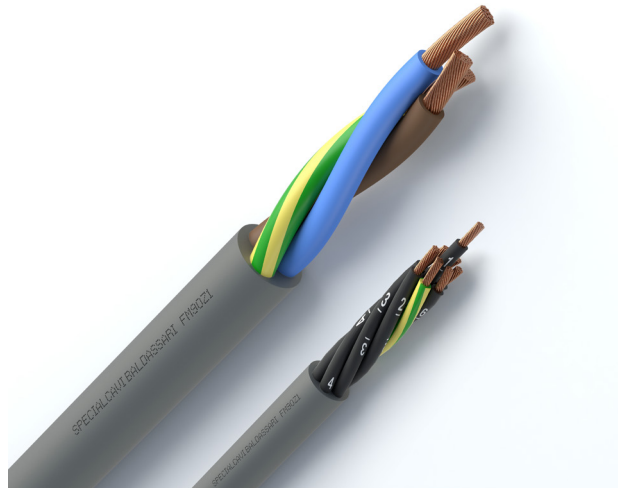
Fixed laying



In duct or cable tray



The cable stored outside must be protected from UV rays



MANUFACTURING CHARACTERISTICS

Conductor:

Flexible bare copper, 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 (based on RAL 7001)

ELECTRICAL CHARACTERISTICS

Operating voltage: 450/750V**Outer sheath operating voltage:** 450/750V**Testing voltage:** 2500V**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 power and signalling with very low smokes and toxic gases emissions.

It's particularly suitable in sites exposed to fire hazards and where there is high density of people, such as schools, offices, theaters, hospitals, etc.

Suitable for installation in dry or damp indoor environments and temporarily outdoors (protected from UV rays) in ducts, cable trays and similar systems.

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

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

Underground laying is not permitted, even if protected.

ON REQUEST

- Galvanized steel braid armour
- Outer sheath with 0.6/1kV insulation voltage for laying in buried cable tray
- Customized cores identification/outer sheath colours

FM90Z1

PART NUMBER	FORMATION	OUTER DIAMETER ¹	WEIGHT ¹	MAX. ELECTRICAL RESISTANCE AT 20°C
[n°]	[n° x mm ²]	[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
FMZ150000U				
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
FMZ250000U				
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
*FMZ400000U				
*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
*FMZ600000U				
*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

* According to in-stock availability, cable which must be produced on request and minimum quantity
¹ Unless otherwise specified, the values for weight and diameter are indicative.
 Note: other values, if available and released for publication, are available on request.