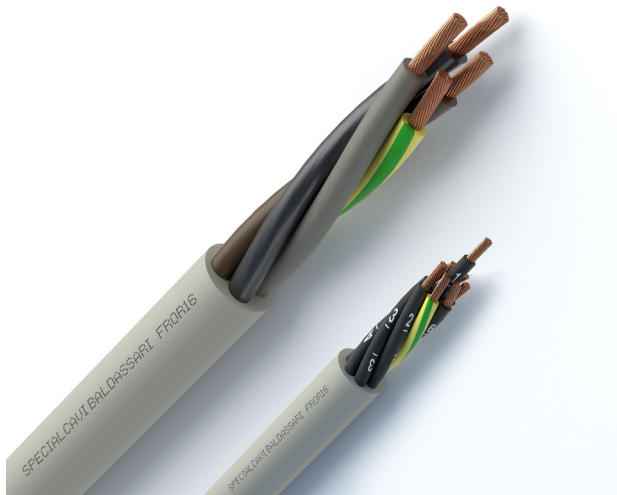




FROR16 O.R. UNEL

Marking: <meters> CE 0987 SPECIALCAVI BALDASSARI FROR16 <formation> 450/750V <lot> <year> CCA-S2,D0,A3



MANUFACTURING CHARACTERISTICS

Conductor:

Flexible bare copper, class 5

Insulation:

PVC compound, R2 type

Stranding:

Cores twisted/stranded in concentric layers

Outer sheath:

PVC compound, R16 type, oil resistant according to CEI EN 60811-404

Colours:*Cores identification:*

CEI UNEL 00722 – 00725 (HD 308 S2 – EN50334)

Outer sheath colour:

Grey (based on RAL 7035)

ELECTRICAL CHARACTERISTICS

Operating voltage:

- 300/500V section $\leq 0.75 \text{ mm}^2$
- 450/750V section $\geq 1.00 \text{ mm}^2$

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

- 2000V sezione $\leq 0.75 \text{ mm}^2$
- 2500V sezione $\geq 1.00 \text{ mm}^2$

Min. insulation resistance at 20°C > 200 M Ω xKm

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.

Multi-core cable for control, signalling, command or measurement systems with oil resistant outer sheath.

The fire non-propagation characteristics (low-risk bundled installation) and compact outer dimensions make it particularly suitable for intercoms, civil applications, industrial interiors and on machinery.

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.

It doesn't exclude problems from possible electromagnetic interferences.

Furthermore, it can also be installed in applications in occasional acyclic mobile laying w/o stress.

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 UNEL 36762

CEI EN 60811-404

REACTION TO FIRE CLASS

EN 50575:2016 C_{ca} - s2, d0, a3

TEMPERATURES

Minimum working temperature:

- Fixed laying -25°C
- Occasional mobile laying w/o stress -5°C

Maximum working temperature:

- Fixed laying +70°C
- Occasional mobile laying w/o stress +70°C

Maximum short circuit temperature: +160°C

LAYING CONDITIONS



Minimum installation temperature -5°C



Min. bending radius dB

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

Fixed laying



In duct or cable tray



Occasional acyclic mobile laying w/o stress

ON REQUEST

- Customized cores identification/ outer sheath colour



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PART NUMBER	FORMATION	OUTER DIAMETER ¹	WEIGHT ¹	MAX. ELECTRICAL RESISTANCE AT 20°C
[n°]	[n° x mm ²]	[mm]	[kg/km]	[Ohm/km]
FRZ05002U	2 X 0.50	4.5	31	39.00
FRZ05003U	3 X 0.50	4.8	37	39.00
FRZ05003G	3 G 0.50	4.8	37	39.00
FRZ05004U	4 X 0.50	5.3	47	39.00
FRZ05004G	4 G 0.50	5.3	47	39.00
FRZ05005U	5 X 0.50	5.8	58	39.00
FRZ05005G	5 G 0.50	5.8	58	39.00
FNZ05006G	6 G 0.50	6.4	69	39.00
FNZ05007G	7 G 0.50	6.4	73	39.00
FNZ05008G	8 G 0.50	7.1	86	39.00
FNZ05010G	10 G 0.50	8.5	119	39.00
FNZ05012G	12 G 0.50	8.5	125	39.00
FNZ05014G	14 G 0.50	9.0	142	39.00
FNZ05016G	16 G 0.50	9.5	160	39.00
FNZ05018G	18 G 0.50	10.1	180	39.00
FNZ05025G	25 G 0.50	12.2	256	39.00
FNZ05037G	37 G 0.50	13.8	348	39.00
FNZ05041G	41 G 0.50	15.1	406	39.00
*FNZ05050G	50 G 0.50	16.4	484	39.00
*FNZ05065G	65 G 0.50	18.8	633	39.00
*FNZ05075G	75 G 0.50	20.0	730	39.00
FRZ07502U	2 X 0.75	5.2	43	26.00
FRZ07503U	3 X 0.75	5.6	52	26.00
FRZ07503G	3 G 0.75	5.6	52	26.00
FRZ07504U	4 X 0.75	6.1	64	26.00
FRZ07504G	4 G 0.75	6.1	64	26.00
*FRZ07505U	5 X 0.75	6.8	81	26.00
*FRZ07505G	5 G 0.75	6.8	81	26.00
*FNZ07506G	6 G 0.75	7.4	95	26.00
FNZ07507G	7 G 0.75	7.4	102	26.00
*FNZ07508G	8 G 0.75	8.2	119	26.00
*FNZ07510G	10 G 0.75	10.0	168	26.00
*FNZ07512G	12 G 0.75	10.0	178	26.00
*FNZ07516G	16 G 0.75	11.2	228	26.00
*FNZ07519G	19 G 0.75	11.8	259	26.00
*FNZ07525G	25 G 0.75	14.4	370	26.00
*FNZ07537G	37 G 0.75	16.2	493	26.00
*FNZ07541G	41 G 0.75	17.8	578	26.00
*FNZ07550G	50 G 0.75	19.3	688	26.00
*FNZ07565G	65 G 0.75	22.2	905	26.00

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PART NUMBER	FORMATION	OUTER DIAMETER ¹	WEIGHT ¹	MAX. ELECTRICAL RESISTANCE AT 20°C
[n°]	[n° x mm ²]	[mm]	[kg/km]	[Ohm/km]
FRZ10002U	2 X 1.00	5.7	52	19.50
FRZ0003U	3 X 1.00	6.1	64	19.50
FRZ10003G	3 G 1.00	6.1	64	19.50
FRZ10004U	4 X 1.00	6.7	79	19.50
FRZ10004G	4 G 1.00	6.7	79	19.50
FRZ10005U	5 X 1.00	7.4	97	19.50
FRZ10005G	5 G 1.00	7.4	97	19.50
FNZ10007U	7 X 1.00	8.1	122	19.50
FNZ10007G	7 G 1.00	8.1	122	19.50
*FNZ10008G	8 G 1.00	9.0	147	19.50
FNZ10010U	10 X 1.00	10.9	205	19.50
FNZ10010G	10 G 1.00	10.9	205	19.50
FNZ10012U	12 X 1.00	10.9	217	19.50
FNZ10012G	12 G 1.00	10.9	217	19.50
*FNZ10014G	14 G 1.00	11.5	246	19.50
FNZ10016U	16 X 1.00	12.3	281	19.50
FNZ10016G	16 G 1.00	12.3	281	19.50
FNZ10019U	19 X 1.00	13.0	321	19.50
FNZ10019G	19 G 1.00	13.0	321	19.50
*FNZ10024U	24 X 1.00	15.8	448	19.50
*FNZ10024G	24 G 1.00	15.8	448	19.50
FNZ10025G	25 G 1.00	15.8	455	19.50
*FNZ10034G	34 G 1.00	17.9	596	19.50
FNZ10037G	37 G 1.00	19.5	687	19.50
FNZ10042G	42 G 1.00	21.3	801	19.50
*FNZ10050G	50 G 1.00	22.7	931	19.50
*FNZ10065G	65 G 1.00	24.4	1119	19.50
FRZ15002U	2 X 1.50	6.8	74	13.30
FRZ15003U	3 X 1.50	7.3	92	13.30
FRZ15003G	3 G 1.50	7.3	92	13.30
FRZ15004U	4 X 1.50	8.1	116	13.30
FRZ15004G	4 G 1.50	8.1	116	13.30
FRZ15005U	5 X 1.50	8.9	141	13.30
FRZ15005G	5 G 1.50	8.9	141	13.30
FNZ15007U	7 X 1.50	9.8	180	13.30
FNZ15007G	7 G 1.50	9.8	180	13.30
FNZ15010G	10 G 1.50	13.4	308	13.30
FNZ15012U	12 X 1.50	13.4	326	13.30
FNZ15012G	12 G 1.50	13.4	326	13.30
FNZ15016U	16 X 1.50	15.0	417	13.30
FNZ15016G	16 G 1.50	15.0	417	13.30
FNZ15019U	19 X 1.50	15.9	478	13.30
FNZ15019G	19 G 1.50	15.9	478	13.30

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PART NUMBER	FORMATION	OUTER DIAMETER ¹	WEIGHT ¹	MAX. ELECTRICAL RESISTANCE AT 20°C
[n°]	[n° x mm ²]	[mm]	[kg/km]	[Ohm/km]
*FNZ15024U	24 X 1.50	19.4	672	13.30
*FNZ15024G	24 G 1.50	19.4	672	13.30
FNZ15025G	25 G 1.50	19.4	682	13.30
*FNZ15034G	34 G 1.50	21.9	889	13.30
*FNZ15041G	41 G 1.50	24.0	1069	13.30
*FNZ15050G	50 G 1.50	26.2	1285	13.30
*FNZ15065G	65 G 1.50	30.0	1679	13.30
FRZ 2500				
*FRZ25002	2 X 2.50	9.2	137	7.98
*FRZ25003U	3 X 2.50	9.6	162	7.98
*FRZ25003G	3 G 2.50	9.6	162	7.98
*FRZ25004U	4 X 2.50	10.9	209	7.98
*FRZ25004G	4 G 2.50	10.9	209	7.98
*FRZ25005U	5 X 2.50	12.1	260	7.98
*FRZ25005G	5 G 2.50	12.1	260	7.98
*FNZ25007U	7 X 2.50	13.3	329	7.98
*FNZ25007G	7 G 2.50	13.3	329	7.98
*FNZ25012U	12 X 2.50	17.9	582	7.98
*FNZ25012G	12 G 2.50	17.9	582	7.98
*FNZ25016U	16 X 2.50	20.3	761	7.98
*FNZ25016G	16 G 2.50	20.3	761	7.98
*FNZ25024U	24 X 2.50	26.1	1213	7.98
*FNZ25024G	24 G 2.50	26.1	1213	7.98
*FNZ25025G	25 G 2.50	26.1	1233	7.98
FRZ 4000				
*FRZ40002	2 X 4.00	10.6	189	4.95
*FRZ40003U	3 X 4.00	11.1	227	4.95
*FRZ40003G	3 G 4.00	11.1	227	4.95
*FRZ40004U	4 X 4.00	12.5	294	4.95
*FRZ40004G	4 G 4.00	12.5	294	4.95
*FRZ40005U	5 X 4.00	13.4	370	4.95
*FRZ40005G	5 G 4.00	13.4	370	4.95
FRZ 6000				
*FRZ60002	2 X 6.00	12.2	259	3.30
*FRZ60003U	3 X 6.00	12.8	313	3.30
*FRZ60003G	3 G 6.00	12.8	313	3.30
*FRZ60004U	4 X 6.00	14.4	407	3.30
*FRZ60004G	4 G 6.00	14.4	407	3.30
*FRZ60005U	5 X 6.00	15.8	500	3.30
*FRZ60005G	5 G 6.00	15.8	500	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.