



- The multicore flexible armored cable series CA ... (A), suitable for permanent installations, have the model code FG7ORAR according to CEI 20-22 and CEI 20-37.
- The cores (A) comply with CEI 20-29 relatively to the formation of strands and CEI 20-11 Chapter VI in relatively to mechanical requirements and thermoplastics. The cores are separated by armor (B) by a extruded PVC sheath compact and of regular cylindrical shape.

On this sheath will tighten the rubber ring of the Ex d cable gland forming thus the lamination joint.

- All inner and intermediate insulations as well as the ending sheath (C) consist of special blends of PVC, all conforming to CEI 20-22-2, CEI 20-37 for anti-fire and anti-flame propagation proofing along with the tests for low smoke, toxic and corrosive gases emissions.

Code	Conductors no. x Section (mm²)	Diameter under Armour (mm)	External Diameter (mm)	Suggested Cable Gland
CA 31	3x1,5	7.5	11	PMA1..913..
CA 41	4x1,5	8	12.5	PMA1..913..
CA 51	5x1,5	9.5	13	PMA1..1218..
CA 71	7x1,5	11	14.5	PMA1..1218..
CA 121	12x1,5	13	17	PMA2..1418..
CA 161	16x1,5	15.5	20.5	PMA2..1723..
CA 241	24x1,5	18	23	PMA3..2026..
CA 32	3x2,5	8	12	PMA1..913..
CA 42	4x2,5	8.5	13	PMA1..913..
CA 52	5x2,5	10.5	14.5	PMA1..1218..
CA 72	7x2,5	12.5	16	PMA2..1418..
CA 122	12x2,5	16	20	PMA2..1723..
CA 162	16x2,5	18	23.5	PMA3..2026..
CA 34	3x4	11	14.5	PMA1..1218..
CA 44	4x4	13	17	PMA2..1418..
CA 54	5x4	14	18	PMA2..1418..
CA 46	4x6	14	18	PMA2..1418..
CA 56	5x6	15	20	PMA2..1723..
CA 410	4x10	18	23	PMA3..2026..
CA 510	5x10	19	25	PMA3..2026..
CA 416	4x16	20	26	PMA3..2329..
CA 516	5x16	22	28	PMA3..2329..
CA 425	4x25	24	30	PMA5..2637..
CA 525	5x25	25	32	PMA5..2637..

Cables characteristics:

- Conductors: Bare copper capillaries wires.
- Insulation of souls: Getilan GPE400
- Colour code: cables of harmonized type with 3, 4 and 5 cores the yellow-green core it is always there.
National cables of harmonized type staining of the same cores complies with Table CEI-UNEL 00722 and one of the cores is always yellow-green.
- Cables for control and signaling: The number of cores is made by injection molding of white numbers over black PVC insulation. These numbers well spaced and abrasion-resistant are easy to read. The numbering starts from the center of the spiral wound conductors and ends on the outer layer.
- Protective sheath: GK 81/3 flame retardant and atoxic
- Armuor: Galvanized steel wires in 24x5x0,5 twisted to ensure coverage of at least 85%
- Outer sheath: GK 81/3 flame retardant and atoxic
- Color: RAL 7035 gray
- External marking: The marking of the external cable is made by molding, in intervals of 50 cm, indelible black numbers and letters showing the number, the section of the conductor, the reference construction standards, the CE marking, the month and year of manufacturing and the name of the manufacturer.
- Rated voltage: 0.6 / 1 kV
- Test voltage: 4000 V
- Maximum operating temperature: +70°C
- Maximum short circuit temperature: +160°C
- Minimum ambient operating temperature: +5°C
- Minimum bending radius: - 16 times the outer diameter of the cable;
- 10 times the outer diameter of the cable for permanent installations.
- Uses and Applications: suitable for indoors or outdoors installation, in damp and wet environments, for connecting permanenet machinery and equipment in hazardous areas. Suitable for permanent installation on masonry and metal structures, walkways, gutters, pipes or similar systems. Can be directly buried.
- Packaging: in rolls of 100 meters or multiple of 100 meters. (Lenghts on customer's request).

Standards Reference

CEI Standards	CENELEC Standards	IEC Standards	Title
CEI 20-11-Chap. VI 3rd edition			Cable Testing for energy compounds and sheaths.
CEI 20-20-Part 4 4th issue	HD 21.4 S2		PVC insulated cables: permanent installation.
CEI 20-22-Part 2 4th issue			Fire Retardant Cable Testing.
CEI 20-29 2nd issue	CENELEC HD 383 S2; CENELEC HD 383 A1; CENELECHD 383 A2	IEC 228; IEC 228/A1; IEC 228/A	Conductors for insulated cables.
CEI 20-35 1st issue	CENELEC HD 405-1	IEC 332-1	Flame Retardant Cable Testing.
CEI 20-37-Part 1 2nd issue			Cable Testing of reduced emission of corrosive gases.