

**H07V-K**

CPR Eca

Model Product: 202 - 20230213

**general**  
**CAVI** s.p.a.

Flexible conductor bare or tinned copper, class 5.  
PVC insulation in T11 quality

**STANDARDS**

CEI EN 50525-2-31 CEI 20-20/3(CENELEC HD 21.3 S3), BS  
EN 50525-2-31 ,NF C 32-201-3 ,DIN VDE 0285-525-2-31  
EN 50575:2014 + EN 50575/A1:2016(IEC 60332-1-2)(IEC  
60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

**COMMON FEATURES**

It must be laid inside pipes at sight, embedded or closed systems. Allowed for fixed and protected installation, upon or into illumination sets for voltage up to 1000V AC or 750V DC to ground. Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

**EMPLOYMENT**

Minimum bending radius per D cable diameter (in mm):

Fixed lay:  $D < 8 = 3D$   $D < 12 = 3D$   $D > 12 = 4D$

Curve near terminal:  $D < 8 = 2D$   $D < 12 = 3D$   $D > 12 = 4D$

Maximum pulling stress: 50 N/mm<sup>2</sup>

**PACKING**

100mt. rings in thermoplastic film or cardboard packagings

FLEXIBLE SINGLE CORE CABLES WITHOUT SHEATH FOR  
GENERAL PURPOSE

Nominal voltage U0: 450 V

Nominal voltage U: 750 V

Test voltage: 2500 V

Maximum operating temperature: +70°C

Maximum short circuit temperature: +160°C

Minimum installation and laying temperature: +5°C

Min. operating temperature (without mechanical shocks): -10°C

**CORE COLOURS**

Single core: Black, light blue, brown, grey, orange, pink, red, turquoise, violet, white, Y/G.

**MARKING ENGRAVING**

GENERAL CAVI - IEMMEQU <HAR> - Eca - year

**NOTE**

Maximum storage temperature: +40°C.

Constructive references as applicable to the IEC 60227



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Conductor Number (N°)	Nominal Section (mmq)	Approx conductor diameter (mm)	Insulation medium thickness (mm)	Approx external production diameter (mm)	Approx cable weight (kg/km)	Electric Resistance 20°C (Ohm/km)	Insulation resistance at 70°C (Mohm/km)	Current carrying capacities 30°C
								30° In tubo o in aria (A)
Single core								
1x	1.5	1.6	0.7	3.1	19	13.3	0.01	15.5
1x	2.5	2	0.8	3.75	31	7.98	0.0095	21
1x	4	2.6	0.8	4.4	45	4.95	0.0078	28
1x	6	3.4	0.8	4.9	63	3.3	0.0068	36
1x	10	4.4	1	6.4	108	1.91	0.0065	50
1x	16	5.7	1	7.4	160	1.21	0.0053	68
1x	25	6.9	1.2	9.1	246	0.78	0.0050	89
1x	35	8.1	1.2	10.35	335	0.554	0.0043	110
1x	50	9.8	1.4	12.4	482	0.386	0.0042	154
1x	70	11.6	1.4	13.6	668	0.272	0.0036	171
1x	95	13.3	1.6	15.8	884	0.206	0.0036	207
1x	120	15.1	1.6	17.4	1106	0.161	0.0032	239
1x	150	16.8	1.8	19.8	1382	0.129	0.0032	275
1x	185	18.8	2	21.6	1690	0.106	0.0032	314
1x	240	21.4	2.2	24.6	2212	0.0801	0.0031	369

Current carrying capacities are calculated on a single circuit with 3 loaded conductors. Lay type: CEI 64-8 Tab 52.C (3-5-31-32-33-33-18)