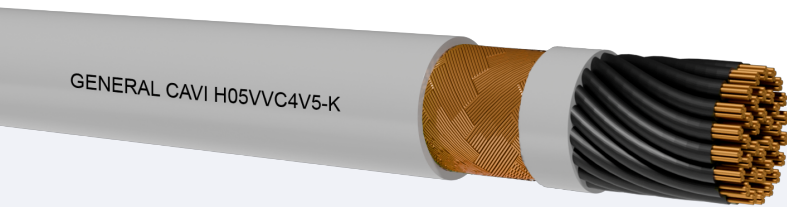


H05VVC4V5-K

Model Product: 233-234 - 20160412

general
CAVI s.p.a.



Class 5 flexible copper conductor.
PVC Insulation in T12 quality.
PVC filler in TM5 quality.
shield made by braid of red or tinned wires copper.
PVC sheath in TM5 quality.

STANDARDS

CEI EN 50525-2-51 BS EN 50525-2-51 NF EN 50525-2-51
VDE 0285-525-2-51 :2012-01
CEI EN 60332-1-2(CEI 20-35/1-2) BS EN 60332-1-2 NF EN
60332-1-2 DIN EN 60332-1-2 (IEC 60227-5)

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

COMMON FEATURES

Interconnection between sides of machinery in construction included the tool machines where a good protection against electromagnetic interference is required. The cable can be moved once installed, particularly for the repositioning, the maintenance, the regulation, and the control of the machines, the cable is on condition that not sped up mechanically during the movement. The cables are resistant to mineral oils of general use but they are not planned for the continuous immersion in the oil. They're destined to the internal use of the buildings. The contamination by means of hydrocarbons, acids and alkali must be avoided. The cables must be protect against the mechanical damages. When the movement of the cables is not required during the use, we advise to install them in culverts, channels etc. When the contact with special oils is probable, please contact us at our technical offices. A system exercise voltage can always overflow the 10% of its standard voltage.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 8D

Maximum pulling stress: 50 N/mm²

PACKING

100m rings in thermoplastic film or drums to agree.

SHIELDED CABLE WITH OIL RESISTANT PVC SHEATH

Nominal voltage U0: 300 V

Nominal voltage U: 500 V

Test voltage: 2000 V

Maximum operating temperature: +60°C

Maximum short circuit temperature: +150°C

Minimum installation and laying temperature: +5°C

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

Minimum installation and laying temperature: +5°C

CORE COLOURS

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

Multicores: black with numbers and Y/G

SHEATH COLOUR

Black, white, grey.

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H05VVC4V5-K - year



H05VVC4V5-K

Model Product: 233-234 - 20160412



| Cores number (N°) | Cross section (mm²) | Approx conductor diameter (mm) | Insulation thickness (mm) | External diameter | | Electric resistance at 20°C (Ohm/km) | Approx cable weight (kg/km) | Current carrying capacities 30°C (A) |
|----------------------|------------------------|-----------------------------------|------------------------------|-------------------|-----------------|---|--------------------------------|---|
| | | | | Minimum (mm) | maximum (mm) | | | |
| Two cores | | | | | | | | |
| 2x | 0.5 | 0.9 | 0.6 | 7.7 | 9.6 | 39.0 | 91 | 7.6 |
| 2x | 0.75 | 1.1 | 0.6 | 8.0 | 10.0 | 26.0 | 97 | 12.0 |
| 2x | 1 | 1.3 | 0.6 | 8.2 | 10.3 | 19.5 | 114 | 15.2 |
| 2x | 1.5 | 1.5 | 0.7 | 9.3 | 11.6 | 13.3 | 140 | 19.2 |
| 2x | 2.5 | 2.0 | 0.8 | 10.7 | 13.3 | 7.98 | 181 | 25.6 |
| Three cores | | | | | | | | |
| 3G | 0.5 | 0.9 | 0.6 | 8.0 | 10.0 | 39.0 | 98 | 7.6 |
| 3G | 0.75 | 1.1 | 0.6 | 8.3 | 10.4 | 26.0 | 115 | 12.0 |
| 3G | 1 | 1.3 | 0.6 | 8.8 | 11.0 | 19.5 | 130 | 15.2 |
| 3G | 1.5 | 1.5 | 0.7 | 9.7 | 12.1 | 13.3 | 159 | 19.2 |
| 3G | 2.5 | 2.0 | 0.8 | 11.3 | 14.0 | 7.98 | 225 | 25.6 |
| Four cores | | | | | | | | |
| 4G | 0.5 | 0.9 | 0.6 | 8.5 | 10.7 | 39 | 110 | 6.8 |
| 4G | 0.75 | 1.1 | 0.6 | 9.1 | 11.3 | 26 | 141 | 10.5 |
| 4G | 1 | 1.3 | 0.6 | 9.4 | 11.7 | 19.5 | 159 | 13.3 |
| 4G | 1.5 | 1.5 | 0.7 | 10.7 | 13.2 | 13.3 | 210 | 16.8 |
| 4G | 2.5 | 2.0 | 0.8 | 12.6 | 15.5 | 7.98 | 251 | 22.4 |
| Five cores | | | | | | | | |
| 5G | 0.5 | 0.9 | 0.6 | 9.3 | 11.6 | 39.0 | 144 | 6.7 |
| 5G | 0.75 | 1.1 | 0.6 | 9.7 | 12.1 | 26.0 | 161 | 10.5 |
| 5G | 1 | 1.3 | 0.6 | 10.3 | 12.8 | 19.5 | 187 | 13.3 |
| 5G | 1.5 | 1.5 | 0.7 | 11.8 | 14.7 | 13.3 | 244 | 16.8 |
| 5G | 2.5 | 2.0 | 0.8 | 13.9 | 17.2 | 7.98 | 336 | 22.4 |
| Multicores | | | | | | | | |
| 7G | 0.5 | 0.9 | 0.6 | 10.8 | 13.5 | 39.0 | 199 | 5.4 |
| 7G | 0.75 | 1.1 | 0.6 | 11.5 | 14.3 | 26.0 | 236 | 9.0 |
| 7G | 1 | 1.3 | 0.6 | 12.2 | 15.1 | 19.5 | 270 | 10.8 |
| 7G | 1.5 | 1.5 | 0.7 | 14.1 | 17.4 | 13.3 | 340 | 13.7 |
| 7G | 2.5 | 2.0 | 0.8 | 16.5 | 20.3 | 7.98 | 495 | 18.2 |
| 12G | 0.5 | 0.9 | 0.6 | 13.3 | 16.5 | 39.0 | 277 | 4.3 |
| 12G | 0.75 | 1.1 | 0.6 | 13.9 | 17.2 | 26.0 | 320 | 6.8 |
| 12G | 1 | 1.3 | 0.6 | 14.7 | 18.1 | 19.5 | 365 | 8.6 |
| 12G | 1.5 | 1.5 | 0.7 | 16.7 | 20.5 | 13.3 | 492 | 10.8 |
| 12G | 2.5 | 2.0 | 0.8 | 19.9 | 24.4 | 7.98 | 691 | 14.4 |
| 18G | 0.5 | 0.9 | 0.6 | 15.1 | 18.6 | 39.0 | 366 | 3.7 |



H05VVC4V5-K

Model Product: 233-234 - 20160412



| Cores number (N°) | Cross section (mm ²) | Approx conductor diameter (mm) | Insulation thickness (mm) | External diameter | | Electric resistance at 20°C (Ohm/km) | Approx cable weight (kg/km) | Current carrying capacities 30°C (A) |
|----------------------|-------------------------------------|--------------------------------------|------------------------------|-------------------|-----------------|--|--------------------------------|--|
| | | | | Minimum (mm) | maximum (mm) | | | |
| 18G | 0.75 | 1.1 | 0.6 | 16.2 | 19.9 | 26.0 | 449 | 5.9 |
| 18G | 1 | 1.3 | 0.6 | 16.9 | 20.8 | 19.5 | 522 | 7.4 |
| 18G | 1.5 | 1.5 | 0.7 | 19.6 | 24.1 | 13.3 | 694 | 9.4 |
| 18G | 2.5 | 2.0 | 0.8 | 23.3 | 28.5 | 7.98 | 1001 | 12.5 |
| 27G | 0.5 | 0.9 | 0.6 | 18.0 | 22.1 | 39.0 | 550 | 3.2 |
| 27G | 0.75 | 1.1 | 0.6 | 19.3 | 23.7 | 26.0 | 688 | 5.1 |
| 27G | 1 | 1.3 | 0.6 | 20.2 | 24.7 | 19.5 | 760 | 6.5 |
| 27G | 1.5 | 1.5 | 0.7 | 23.4 | 28.6 | 13.3 | 1023 | 8.2 |
| 27G | 2.5 | 2.0 | 0.8 | 28.2 | 34.5 | 7.98 | 1522 | 10.9 |