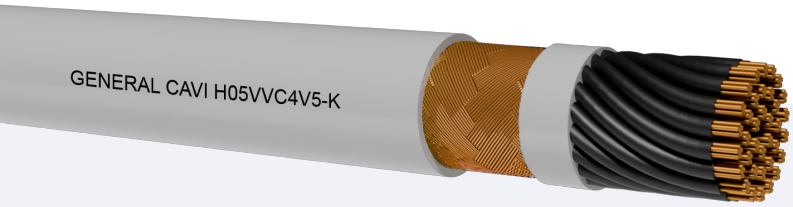
H05VVC4V5-K

Model Product: 233-234 - 20160412



SHIELDED CABLE WITH OIL RESISTANT PVC SHEATH

Class 5 flexible copper conductor.
PVC Insulation in TI2 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)

- Nominal voltage U0: 300 V
- Nominal voltage U: 500 V
- Test voltage: 2000 V
- Maximun operating temperature: +60°C
- Maximun short circuit temperature: +150°C
- Minimum installation and laying temperature: +5°C
- Min. operating temperature (without mechanical shocks): -10°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

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 exercice voltage can always overflow the 10% of its standard voltage.

SHEATH COLOUR

Black, white, grey.

INK MARKING

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

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.

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Cores number	Cross section	Approx conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
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

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Cores number	Cross section	Approx conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
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