

## H05VV5-F



### Application

Special PVC control cable with an oil-proof outer sheath. These cables are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air. These are designed as control and connecting cables to machines, tool machineries, conveyor belts and production lines. These cables are not effected to the chemical influences. Cables for moist and wet rooms, specially used for machines in breweries, bottling plants and car washing stations. These cables may be allowed to move once installed provided that the cables are not mechanically stressed during movement.

The materials used are free from silicon and cadmium and free from varnish damaging substances.

### Standards

acc. to DIN EN 50525-2-51 VDE 0285-525-2-51:2012-01 self-extinguishing and flame retardant acc. to VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1  
Oil resistant acc. to EN 60811-2-1

CE = The product is conformed with the EC Low-Voltage Directive 2014/35/EU.

### Construction

|                                  |   |
|----------------------------------|---|
| <b>Inner Conductor</b>           | fine-stranded bare copper acc. DIN VDE 0295 cl. 5 / IEC 60228 cl. 5   |
| <b>Core Insulation</b>           | special polyvinylchlorid compound (PVC) TI2 to DIN VDE 0281 part 1  |
| <b>Core Color</b>                | black cores with continuous white numbering according to DIN VDE 0293<br>green-yellow earth core in the outer layer (3 cores and above) |
| <b>Stranding Elements</b>        | cores stranded in layers with optimal layer-length  |
| <b>Outer Insulation Material</b> | Polyvinylchlorid (PVC)  |
| <b>Constant Against</b>          | oil resistant   |

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## Technical Data

|                                     |                               |
|-------------------------------------|-------------------------------|
| <b>Nominal Voltage</b>              | U <sub>0</sub> /U: 300 /500 V |
| <b>Nominal Volatage DC</b>          | U <sub>0</sub> /U: 0 /0       |
| <b>Test Voltage</b>                 | 2000 V                        |
| <b>Bending Radius moved (xD)</b>    | 12.5                          |
| <b>Bending Radius fixed (xD)</b>    | 4                             |
| <b>Operating Temperature solid</b>  | -40 °C bis 70 °C              |
| <b>Operating Temperature moving</b> | -5 °C bis 70 °C               |
| <b>Short Circuit Temperature</b>    | 150 °C                        |
| <b>Short Circuit Duration</b>       | 5 sek.                        |
| <b>Fire Classes</b>                 | Eca                           |

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| <b>Test Voltage</b>                 | 2000 V                        |
| <b>Bending Radius moved (xD)</b>    | 12.5                          |
| <b>Bending Radius fixed (xD)</b>    | 4                             |
| <b>Operating Temperature solid</b>  | -40 °C to 70 °C               |
| <b>Operating Temperature moving</b> | -5 °C to 70 °C                |
| <b>Short Circuit Temperature</b>    | 150 °C                        |
| <b>Short Circuit Duration</b>       | 5 sek.                        |
| <b>Fire Classes</b>                 | Eca                           |

| Prod. Nr.<br>Prod. Nr. | Option<br>Option | Dimensions<br>Dimensions | Color<br>Color | Weight (kg/km) approx.<br>Weight (kg/km) approx. | Outer-Diameter (mm) approx.<br>Outer-Diameter (mm) approx. |
|------------------------|------------------|--------------------------|----------------|--|--|
| 00919066               | X                | 2 x 0,5                  | grey - grey    | 46,0   | 5,9  |
| 00919048               | X                | 2 x 0,75                 | grey - grey    | 52,0   | 6,0  |
| 00919050               | X                | 2 x 1                    | grey - grey    | 63,0   | 6,2  |
| 00919036               | X                | 2 x 1,5                  | grey - grey    | 77,0   | 7,3  |
| 00919004               | G                | 3 G 0,5                  | grey - grey    | 54,0   | 6,2  |
| 00919028               | G                | 3 G 0,75                 | grey - grey    | 68,0   | 6,7  |
| 00919008               | G                | 3 G 1                    | grey - grey    | 78,0   | 7,0  |
| 00919018               | G                | 3 G 1,5                  | grey - grey    | 97,0   | 7,9  |
| 00919022               | G                | 3 G 2,5                  | grey - grey    | 154,0  | 9,6  |
| 00919060               | G                | 3 G 4                    | grey - grey    | 230,0  | 11,3   |
| 00919061               | G                | 3 G 6                    | grey - grey    | 358,0  | 12,9   |
| 00919002               | G                | 4 G 0,5                  | grey - grey    | 65,0   | 6,7  |
| 00919014               | G                | 4 G 0,75                 | grey - grey    | 82,0   | 7,3  |
| 00919009               | G                | 4 G 1                    | grey - grey    | 104,0  | 7,6  |
| 00919019               | G                | 4 G 1,5                  | grey - grey    | 128,0  | 8,7  |
| 00919015               | G                | 4 G 2,5                  | grey - grey    | 212,0  | 10,8   |
| 00919037               | G                | 4 G 4                    | grey - grey    | 295,0  | 12,4   |
| 00919040               | G                | 4 G 6                    | grey - grey    | 424,0  | 14,2   |
| 00919039               | G                | 4 G 10                   | grey - grey    | 701,0  | 18,1   |
| 00919041               | G                | 4 G 16                   | grey - grey    | 1.035,0  | 20,9   |
| 00919001               | G                | 5 G 0,5                  | grey - grey    | 80,0   | 7,4  |
| 00919032               | G                | 5 G 0,75                 | grey - grey    | 107,0  | 8,3  |
| 00919016               | G                | 5 G 1                    | grey - grey    | 123,0  | 8,7  |
| 00919017               | G                | 5 G 1,5                  | grey - grey    | 149,0  | 9,6  |

| Prod. Nr.<br>Prod. Nr. | Option<br>Option | Dimensions<br>Dimensions | Color<br>Color | Weight (kg/km) approx.<br>Weight (kg/km) approx. | Outer-Diameter (mm) approx.<br>Outer-Diameter (mm) approx. |
|------------------------|------------------|--------------------------|----------------|--|--|
| 00919023               | G                | 5 G 2,5                  | grey - grey    | 242,0  | 11,6   |
| 00919038               | G                | 5 G 4                    | grey - grey    | 361,0  | 13,9   |
| 00919045               | G                | 5 G 6                    | grey - grey    | 525,0  | 15,9   |
| 00919070               | G                | 5 G 10                   | grey - grey    | 858,0  | 20,3   |
| 00919042               | G                | 7 G 0,5                  | grey - grey    | 119,0  | 9,1  |
| 00919005               | G                | 7 G 0,75                 | grey - grey    | 145,0  | 9,7  |
| 00919011               | G                | 7 G 1                    | grey - grey    | 183,0  | 10,2   |
| 00919010               | G                | 7 G 1,5                  | grey - grey    | 196,0  | 11,8   |
| 00919024               | G                | 7 G 2,5                  | grey - grey    | 350,0  | 14,2   |
| 00919055               | G                | 7 G 4                    | grey - grey    | 445,0  | 15,1   |
| 00919056               | G                | 7 G 6                    | grey - grey    | 715,0  | 20,5   |
| 00919046               | G                | 7 G 10                   | grey - grey    | 1.106,0  | 24,3   |
| 00919047               | G                | 7 G 16                   | grey - grey    | 1.780,0  | 28,5   |
| 00919078               | G                | 8 G 1                    | grey - grey    | 220,0  | 12,0   |
| 00919064               | G                | 12 G 0,5                 | grey - grey    | 186,0  | 11,2   |
| 00919006               | G                | 12 G 0,75                | grey - grey    | 231,0  | 12,1   |
| 00919012               | G                | 12 G 1                   | grey - grey    | 269,0  | 12,7   |
| 00919020               | G                | 12 G 1,5                 | grey - grey    | 324,0  | 14,4   |
| 00919027               | G                | 12 G 2,5                 | grey - grey    | 543,0  | 17,7   |
| 00919062               | G                | 18 G 0,5                 | grey - grey    | 251,0  | 13,0   |
| 00919025               | G                | 18 G 0,75                | grey - grey    | 313,0  | 14,0   |
| 00919029               | G                | 18 G 1                   | grey - grey    | 400,0  | 15,0   |
| 00919007               | G                | 18 G 1,5                 | grey - grey    | 485,0  | 17,2   |
| 00919033               | G                | 18 G 2,5                 | grey - grey    | 787,0  | 21,4   |

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|-----------|--------|------------|-------------|------------------------|-----------------------------|
| Prod. Nr. | Option | Dimensions | Color       | Weight (kg/km) approx. | Outer-Diameter (mm) approx. |
| 00919063  | G      | 25 G 0,5   | grey - grey | 349,0                  | 16,0                        |
| 00919034  | G      | 25 G 0,75  | grey - grey | 461,0                  | 17,0                        |
| 00919013  | G      | 25 G 1     | grey - grey | 546,0                  | 18,0                        |
| 00919021  | G      | 25 G 1,5   | grey - grey | 671,0                  | 21,7                        |
| 00919030  | G      | 25 G 2,5   | grey - grey | 1.175,0                | 26,1                        |
| 00919035  | G      | 34 G 0,75  | grey - grey | 614,0                  | 19,1                        |
| 00919026  | G      | 34 G 1     | grey - grey | 724,0                  | 20,6                        |
| 00919031  | G      | 34 G 1,5   | grey - grey | 881,0                  | 24,1                        |
| 00919053  | G      | 50 G 1,5   | grey - grey | 1.270,0                | 30,3                        |
| 00919044  | G      | 65 G 1     | grey - grey | 1.315,0                | 28,1                        |