

PVC insulated wire

H07V-K



Application: For laying in pipes on top of or under plaster and in closed installation ducts and for internal wiring of machinery, switchgear and distributor systems. The cable is not suitable for direct laying under plaster.

Construction and technical data:

| | |
|--|---------------------------------------|
| CPR-classification according to EN 50575: | Eca |
| Standard: | DIN EN 50525-2-31 (VDE 0285-525-2-31) |
| Conductor material: | copper, bare |
| Conductor construction: | Class 5 = flexible |
| Insulation: | PVC TI1 |
| Flame-retardant: | VDE 0482-332-1-2/IEC 60332-1-2 |
| Max. temperature at conductor, °C: | 70 °C |
| Permitted outer cable temperature, fixed, °C: | -5 - +70 °C |
| Permitted outer cable temperature, moved, °C: | +5 - +70 °C |
| Bending radius, fixed installation: | 4 x Ø |



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H07V-K

| | |
|---------------------------------------|-----------|
| Nominal voltage U₀: | 450 V |
| Nominal voltage U: | 750 V |
| Maximum operating capacity: | 100 nF/km |
| Test voltage: | 2.5 kV |

| part no. | part name | DI [mm] | RI [Ohm/km] | Wi [mm] | I _{bl} [A] | R _{bv} [mm] | Ø [mm] | Cu | G [kg] |
|----------|-------------------------|---------|-------------|---------|---------------------|----------------------|--------|------|--------|
| 040035 | 1X1.5 BK | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040980 | 1X1.5 BK barrel pack | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040031 | 1X1.5 GN-YE | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 041004 | 1X1.5 GN-YE barrel pack | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040226 | 1X1.5 LBU | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 041005 | 1X1.5 LBU barrel pack | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040030 | 1X1.5 BN | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |

| part no. | part name | DI [mm] | RI [Ohm/km] | Wi [mm] | Ibl [A] | Rbv [mm] | Ø [mm] | Cu | G [kg] |
|----------|-------------------------|---------|-------------|---------|---------|----------|--------|------|--------|
| 041006 | 1X1.5 BN barrel pack | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040033 | 1X1.5 GY | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 041007 | 1X1.5 GY barrel pack | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040036 | 1X1.5 VI | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040034 | 1X1.5 RD | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 041008 | 1X1.5 RD barrel pack | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040037 | 1X1.5 WH | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 041009 | 1X1.5 WH barrel pack | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040195 | 1X1.5 OG | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 041010 | 1X1.5 OG barrel pack | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040194 | 1X1.5 TR | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040212 | 1X1.5 DBU | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 041011 | 1X1.5 DBU barrel pack | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040374 | 1X1.5 YE | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 21 |
| 040824 | 1X1.5 DBU-WH | 1.8 | 13.3 | 0.7 | 24 | 11.2 | 2.8 | 14.4 | 20 |
| 040058 | 1X2.5 BK | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040981 | 1X2.5 BK barrel pack | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040054 | 1X2.5 GN-YE | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 041012 | 1X2.5 GN-YE barrel pack | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040227 | 1X2.5 LBU | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 041013 | 1X2.5 LBU barrel pack | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040052 | 1X2.5 BN | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 041014 | 1X2.5 BN barrel pack | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040056 | 1X2.5 GY | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040196 | 1X2.5 VI | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040057 | 1X2.5 RD | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 041015 | 1X2.5 RD barrel pack | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040059 | 1X2.5 WH | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040213 | 1X2.5 DBU | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040930 | 1X2.5 DBU-WH | 2.6 | 7.98 | 0.8 | 32 | 13.6 | 3.4 | 24 | 32 |
| 040067 | 1X4 BK | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 040982 | 1X4 BK barrel pack | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 040066 | 1X4 GN-YE | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 041016 | 1X4 GN-YE barrel pack | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 040228 | 1X4 LBU | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 041017 | 1X4 LBU barrel pack | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 040065 | 1X4 BN | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 041018 | 1X4 BN barrel pack | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 040197 | 1X4 RD | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 040251 | 1X4 GY | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 040229 | 1X4 DBU | 3.2 | 4.95 | 0.8 | 42 | 15.6 | 3.9 | 38 | 46 |
| 040704 | 1X4 VI | 3.2 | 4.95 | 0.8 | 42 | 19.2 | 4.8 | 38 | 46 |
| 040074 | 1X6 BK | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 040983 | 1X6 BK barrel pack | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 040073 | 1X6 GN-YE | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 041019 | 1X6 GN-YE barrel pack | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 040230 | 1X6 LBU | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 041020 | 1X6 LBU barrel pack | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 040071 | 1X6 BN | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 041021 | 1X6 BN barrel pack | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 040198 | 1X6 RD | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 040252 | 1X6 GY | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 040231 | 1X6 DBU | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 040380 | 1X6 WH | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |
| 040663 | 1X6 OG | 3.9 | 3.3 | 0.8 | 54 | 18 | 4.5 | 58 | 65 |

| part no. | part name | DI [mm] | RI [Ohm/km] | Wi [mm] | Ibl [A] | Rbv [mm] | Ø [mm] | Cu | G [kg] |
|----------|-------------|---------|-------------|---------|---------|----------|--------|------|--------|
| 040705 | 1X6 VI | 3.9 | 3.3 | 0.8 | 54 | 18 | 5.3 | 58 | 65 |
| 040042 | 1X10 BK | 5.1 | 1.91 | 1 | 73 | 23.2 | 5.8 | 96 | 115 |
| 040040 | 1X10 GN-YE | 5.1 | 1.91 | 1 | 73 | 23.2 | 5.8 | 96 | 115 |
| 040232 | 1X10 LBU | 5.1 | 1.91 | 1 | 73 | 23.2 | 5.8 | 96 | 115 |
| 040039 | 1X10 BN | 5.1 | 1.91 | 1 | 73 | 23.2 | 5.8 | 96 | 115 |
| 040041 | 1X10 RD | 5.1 | 1.91 | 1 | 73 | 23.2 | 5.8 | 96 | 115 |
| 040049 | 1X16 BK | 6.3 | 1.21 | 1 | 98 | 28 | 7 | 154 | 170 |
| 040047 | 1X16 GN-YE | 6.3 | 1.21 | 1 | 98 | 28 | 7 | 154 | 170 |
| 040234 | 1X16 LBU | 6.3 | 1.21 | 1 | 98 | 28 | 7 | 154 | 170 |
| 040235 | 1X16 DBU | 6.3 | 1.21 | 1 | 98 | 28 | 7 | 154 | 170 |
| 040046 | 1X16 BN | 6.3 | 1.21 | 1 | 98 | 28 | 7 | 154 | 170 |
| 040048 | 1X16 RD | 6.3 | 1.21 | 1 | 98 | 28 | 7 | 154 | 170 |
| 040349 | 1X16 GY | 6.3 | 1.21 | 1 | 98 | 28 | 7 | 154 | 170 |
| 040061 | 1X25 BK | 7.8 | 0.78 | 1.2 | 129 | 34 | 8.5 | 240 | 260 |
| 040060 | 1X25 GN-YE | 7.8 | 0.78 | 1.2 | 129 | 34 | 8.5 | 240 | 260 |
| 040752 | 1X25 LBU | 7.8 | 0.78 | 1.2 | 129 | 34 | 8.5 | 240 | 260 |
| 040753 | 1X25 DBU | 7.8 | 0.78 | 1.2 | 129 | 34 | 8.5 | 240 | 260 |
| 040383 | 1X25 BN | 7.8 | 0.78 | 1.2 | 129 | 34 | 8.5 | 240 | 260 |
| 040063 | 1X35 BK | 9.2 | 0.554 | 1.2 | 158 | 39.2 | 9.8 | 336 | 360 |
| 040062 | 1X35 GN-YE | 9.2 | 0.554 | 1.2 | 158 | 39.2 | 9.8 | 336 | 360 |
| 040754 | 1X35 LBU | 9.2 | 0.554 | 1.2 | 158 | 39.2 | 9.8 | 336 | 360 |
| 040755 | 1X35 DBU | 9.2 | 0.554 | 1.2 | 158 | 39.2 | 9.8 | 336 | 360 |
| 040387 | 1X35 BN | 9.2 | 0.554 | 1.2 | 158 | 39.2 | 9.8 | 336 | 360 |
| 040696 | 1X35 WH | 9.2 | 0.554 | 1.2 | 158 | 39.2 | 9.8 | 336 | 360 |
| 040069 | 1X50 BK | 11 | 0.386 | 1.4 | 198 | 46.4 | 11.6 | 480 | 515 |
| 040068 | 1X50 GN-YE | 11 | 0.386 | 1.4 | 198 | 46.4 | 11.6 | 480 | 515 |
| 040075 | 1X70 BK | 13.1 | 0.272 | 1.4 | 245 | 53.2 | 13.3 | 672 | 710 |
| 040176 | 1X70 GN-YE | 13.1 | 0.272 | 1.4 | 245 | 53.2 | 13.3 | 672 | 710 |
| 040836 | 1X70 LBU | 13.1 | 0.27 | 1.4 | 245 | 53.2 | 13.3 | 672 | 710 |
| 040837 | 1X70 DBU | 13.1 | 0.27 | 1.4 | 245 | 53.2 | 13.3 | 672 | 710 |
| 040076 | 1X95 BK | 15 | 0.206 | 1.6 | 292 | 61.2 | 15.3 | 912 | 940 |
| 040185 | 1X95 GN-YE | 15 | 0.206 | 1.6 | 292 | 61.2 | 15.3 | 912 | 940 |
| 040043 | 1X120 BK | 16.7 | 0.161 | 1.6 | 344 | 67.6 | 16.9 | 1152 | 1180 |
| 040186 | 1X120 GN-YE | 16.7 | 0.161 | 1.6 | 344 | 67.6 | 16.9 | 1152 | 1180 |
| 040044 | 1X150 BK | 18.6 | 0.129 | 1.8 | 391 | 75.2 | 18.8 | 1440 | 1600 |
| 040700 | 1X150 GN-YE | 18.6 | 0.129 | 1.8 | 391 | 75.2 | 18.8 | 1440 | 1600 |
| 040050 | 1X185 BK | 20.6 | 0.106 | 2 | 448 | 84 | 21 | 1776 | 2100 |
| 040351 | 1X185 GN-YE | 20.6 | 0.106 | 2 | 448 | 84 | 21 | 1776 | 2100 |
| 040238 | 1X240 BK | 23.5 | 0.0801 | 2.2 | 528 | 96 | 24 | 2304 | 3015 |
| 040342 | 1X240 GN-YE | 23.5 | 0.0801 | 2.2 | 528 | 96 | 24 | 2304 | 3015 |

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|-----|------------------------------------|
| DI | diameter conductor |
| RI | Conductor resistance |
| Wi | Insulation wall thickness |
| Ibl | Ampacity in air (30 °C) |
| Rbv | Bending radius, fixed installation |
| Ø | outer diameter approx. |
| Cu | Copper weight (GER) |
| G | net weight per 1000 |