







# H07V2-R PVC Single Wire 90 °C



| Technical data   |   |   |
|--|---|---|
| <b>DIN VDE 0281 part 7</b>   | <ul style="list-style-type: none"> <li>• Conductor bare or tinned copper, fine wire strands, class 5 acc. to HD 21.1<sup>1)</sup></li> <li>• Insulation PVC TI1 acc. to HD 21.1</li> <li>• Coding acc. to HD 21.1</li> <li>• &lt;VDE&gt; &lt;HAR&gt;</li> </ul> |   |
| <b>Nominal voltage U<sub>0</sub>/U</b>   | 450/750 V   |   |
| <b>Test voltage</b>  | 4,000 V   |   |
| <b>Temperature range</b>   | While mounting  | +5 °C to +90 °C   |
|  | Fixed installation  | -40 °C to +90 °C  |
| <b>Maximum temp. at wire</b>   | In operation  | +90 °C  |
|  | At short circuit  | +160 °C   |
| <b>Flammability</b>  | According to DIN EN 50265-2-1   |   |
| Description  | Colours   | Packaging <sup>2)</sup>   |
| <b>1.5 mm<sup>2</sup></b><br>Outer diameter 3 mm<br>Copper weight 14.4 kg/km     | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Cardboard box</li> <li>• Boxed wire</li> <li>• Reel</li> </ul> |
| <b>2.5 mm<sup>2</sup></b><br>Outer diameter 3.6 mm<br>Copper weight 24 kg/km     | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Cardboard box</li> <li>• Boxed wire</li> <li>• Reel</li> </ul> |
| <b>4 mm<sup>2</sup></b><br>Outer diameter 4.3 mm<br>Copper weight 38.4 kg/km     | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Cardboard box</li> <li>• Boxed wire</li> <li>• Reel</li> </ul> |
| <b>6 mm<sup>2</sup></b><br>Outer diameter 5.8 mm<br>Copper weight 58 kg/km       | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Cardboard box</li> <li>• Boxed wire</li> <li>• Reel</li> </ul> |
| <b>10 mm<sup>2</sup></b><br>Outer diameter 6.3 mm<br>Copper weight 96 kg/km      | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>16 mm<sup>2</sup></b><br>Outer diameter 7.4 mm<br>Copper weight 154 kg/km     | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>25 mm<sup>2</sup></b><br>Outer diameter 9.3 mm<br>Copper weight 240 kg/km     | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>35 mm<sup>2</sup></b><br>Outer diameter 10.3 mm<br>Copper weight 336 kg/km    | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>50 mm<sup>2</sup></b><br>Outer diameter 14.3 mm<br>Copper weight 480 kg/km    | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>70 mm<sup>2</sup></b><br>Outer diameter 16.8 mm<br>Copper weight 672 kg/km    | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>95 mm<sup>2</sup></b><br>Outer diameter 18.8 mm<br>Copper weight 912 kg/km    | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>120 mm<sup>2</sup></b><br>Outer diameter 20.6 mm<br>Copper weight 1,152 kg/km | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>150 mm<sup>2</sup></b><br>Outer diameter 23.1 mm<br>Copper weight 1,440 kg/km | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>185 mm<sup>2</sup></b><br>Outer diameter 25.6 mm<br>Copper weight 1,776 kg/km | Black White Grey Red<br>Blue Violet Brown –<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |
| <b>240 mm<sup>2</sup></b><br>Outer diameter 29.1 mm<br>Copper weight 2,304 kg/km | Black White Grey Red<br>Blue Violet Brown<br>Green/Yellow   | <ul style="list-style-type: none"> <li>• Coil</li> <li>• Spool</li> <li>• Reel</li> </ul>               |

1) Harmonizing document  
2) See page 17.34

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|  |  |   |  |
|--|--|---|--|
|   | <b>1) Cardboard box</b>                      |    | <b>4) Plastic spools</b>   |
|   | <b>2) Multi-ply reel</b>                     |   | <b>5) Wooden reels for bigger sizes of cable and/or large quantities</b>   |
|  | <b>3) Coil, mostly blistered in PVC foil</b> |  | <b>6) "Boxed wire" container, made of corrugated cardboard for wire sizes up to 6 mm<sup>2</sup> included. Ideal for wire processing on automatic machines: smooth feeding, no wire prefeeder needed</b> |

All of our packaging modalities are "one-way" with the exception of wooden drums.  
In case you prefer our prescribe defined dimensions of spools, reels, etc., please contact us.