

# H07V-U

PVC single core, solid



## TECHNICAL DATA

PVC single core acc. to DIN VDE 0285-525-2-31 / DIN EN 50525-2-31

|                        |                                                |
|------------------------|------------------------------------------------|
| Temperature range      | flexible +5°C to +70°C<br>fixed -30°C to +80°C |
| Nominal voltage        | AC U <sub>0</sub> /U 450/750 V                 |
| Test voltage           | 2500 V                                         |
| Minimum bending radius | fixed 4x Outer-Ø                               |

## CABLE STRUCTURE

- Copper conductor bare, solid acc. to DIN VDE 0295 Class 1 / IEC 60228 Class 1
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T11)
- Core identification: see table

## PROPERTIES

- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

## TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- certifications and approvals:  
HAR  
EAC

## APPLICATION

Installation in electrical conduits, on or under plaster or similar enclosed systems. Suitable for protected and fixed installation in lighting systems or switching and control devices up to and including 1000 V AC voltage or up to 750 V DC voltage against earth. Not suitable for direct laying in cable ladders and cable trays, except as a potential equalization cable.

## NOTES

- the conductor is metrically (mm<sup>2</sup>) constructed, AWG numbers are approximated, and are for reference only

### Coil in cardboard box (100m)

| Cross-sec.<br>mm <sup>2</sup> | AWG,<br>approx. | Outer-Ø<br>min - max<br>mm | Cu factor<br>per km | black<br>(RAL 9005) | green-yellow | blue<br>(RAL 5015) | brown<br>(RAL 8003) | red<br>(RAL 3000) | white<br>(RAL 9003) | grey<br>(RAL 7001) | violet<br>(RAL 4005) |
|-------------------------------|-----------------|----------------------------|---------------------|---------------------|--------------|--------------------|---------------------|-------------------|---------------------|--------------------|----------------------|
|                               |                 |                            |                     | Part no.            | Part no.     | Part no.           | Part no.            | Part no.          | Part no.            | Part no.           | Part no.             |
| 1.5                           | 16              | 2.6 - 3.2                  | 14.4                | <b>28785</b>        | <b>28786</b> | <b>28787</b>       | <b>28788</b>        | <b>28789</b>      | <b>28790</b>        | <b>28791</b>       | <b>28792</b>         |
| 2.5                           | 14              | 3.2 - 3.9                  | 24.0                | <b>28793</b>        | <b>28794</b> | <b>28795</b>       | <b>28796</b>        | <b>28797</b>      | <b>28798</b>        | <b>28799</b>       | <b>28800</b>         |
| 4                             | 12              | 3.6 - 4.4                  | 38.0                | <b>28801</b>        | <b>28802</b> | <b>28803</b>       | <b>28804</b>        | <b>28805</b>      | <b>28806</b>        | <b>28807</b>       | <b>28808</b>         |
| 6                             | 10              | 4.1 - 5.0                  | 58.0                | <b>28809</b>        | <b>28810</b> | <b>28811</b>       | <b>28812</b>        | <b>28813</b>      | <b>28814</b>        | <b>28815</b>       | <b>28816</b>         |

### Coil (100m)

| Cross-sec.<br>mm <sup>2</sup> | AWG,<br>approx. | Outer-Ø<br>min - max<br>mm | Cu factor<br>per km | black<br>(RAL 9005) | green-yellow | blue<br>(RAL 5015) | brown<br>(RAL 8003) | red<br>(RAL 3000) | white<br>(RAL 9003) | grey<br>(RAL 7001) | violet<br>(RAL 4005) |
|-------------------------------|-----------------|----------------------------|---------------------|---------------------|--------------|--------------------|---------------------|-------------------|---------------------|--------------------|----------------------|
|                               |                 |                            |                     | Part no.            | Part no.     | Part no.           | Part no.            | Part no.          | Part no.            | Part no.           | Part no.             |
| 1.5                           | 16              | 2.6 - 3.2                  | 14.4                | <b>28980</b>        | <b>28983</b> | <b>28929</b>       | <b>28981</b>        | <b>28982</b>      | <b>29853</b>        | <b>29854</b>       | <b>29930</b>         |
| 2.5                           | 14              | 3.2 - 3.9                  | 24.0                | <b>29849</b>        | <b>29852</b> | <b>28984</b>       | <b>29850</b>        | <b>29851</b>      | <b>29931</b>        | <b>29932</b>       | <b>29934</b>         |
| 4                             | 12              | 3.6 - 4.4                  | 38.0                | <b>29935</b>        | <b>29936</b> | <b>29937</b>       | <b>29938</b>        | <b>29939</b>      | <b>29940</b>        | <b>29941</b>       | <b>29969</b>         |
| 6                             | 10              | 4.1 - 5.0                  | 58.0                | <b>29878</b>        | <b>29879</b> | <b>29880</b>       | <b>29881</b>        | <b>29882</b>      | <b>29883</b>        | <b>29884</b>       | <b>29885</b>         |
| 10                            | 8               | 5.3 - 6.4                  | 96.0                | <b>28817</b>        | <b>28818</b> | <b>28819</b>       | <b>28820</b>        | <b>28821</b>      | <b>28822</b>        | <b>28823</b>       | <b>28824</b>         |

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## Spool

|                               |                 |                            |                     |  |  |  |  |  |  |  |  |
|-------------------------------|-----------------|----------------------------|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cross-sec.<br>mm <sup>2</sup> | AWG,<br>approx. | Outer-Ø<br>min - max<br>mm | Cu factor<br>per km | black<br>(RAL 9005)<br>Part no.                                                   | green-yellow<br>Part no.                                                          | blue<br>(RAL 5015)<br>Part no.                                                    | brown<br>(RAL 8003)<br>Part no.                                                   | red<br>(RAL 3000)<br>Part no.                                                      | white<br>(RAL 9003)<br>Part no.                                                     | grey<br>(RAL 7001)<br>Part no.                                                      | violet<br>(RAL 4005)<br>Part no.                                                    |
| 1.5                           | 16              | 2.6 - 3.2                  | 14.4                | <b>28105</b>                                                                      | <b>28106</b>                                                                      | <b>28107</b>                                                                      | <b>28108</b>                                                                      | <b>28109</b>                                                                       | <b>28110</b>                                                                        | <b>28111</b>                                                                        | <b>28112</b>                                                                        |
| 2.5                           | 14              | 3.2 - 3.9                  | 24.0                | <b>28113</b>                                                                      | <b>28114</b>                                                                      | <b>28115</b>                                                                      | <b>28116</b>                                                                      | <b>28117</b>                                                                       | <b>28118</b>                                                                        | <b>28119</b>                                                                        | <b>28120</b>                                                                        |
| 4                             | 12              | 3.6 - 4.4                  | 38.0                | <b>28121</b>                                                                      | <b>28122</b>                                                                      | <b>28123</b>                                                                      | <b>28124</b>                                                                      | <b>28125</b>                                                                       | <b>28126</b>                                                                        | <b>28127</b>                                                                        | <b>28128</b>                                                                        |
| 6                             | 10              | 4.1 - 5.0                  | 58.0                | <b>28129</b>                                                                      | <b>28130</b>                                                                      | <b>28131</b>                                                                      | <b>28132</b>                                                                      | <b>28133</b>                                                                       | <b>28134</b>                                                                        | <b>28135</b>                                                                        | <b>28136</b>                                                                        |
| 10                            | 8               | 5.3 - 6.4                  | 96.0                | <b>28137</b>                                                                      | <b>28138</b>                                                                      | <b>28139</b>                                                                      | <b>28140</b>                                                                      | <b>28141</b>                                                                       | <b>28142</b>                                                                        | <b>28143</b>                                                                        | <b>28144</b>                                                                        |

## Drum

|                               |                 |                            |                     |  |  |  |  |  |  |  |  |
|-------------------------------|-----------------|----------------------------|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cross-sec.<br>mm <sup>2</sup> | AWG,<br>approx. | Outer-Ø<br>min - max<br>mm | Cu factor<br>per km | black<br>(RAL 9005)<br>Part no.                                                   | green-yellow<br>Part no.                                                          | blue<br>(RAL 5015)<br>Part no.                                                    | brown<br>(RAL 8003)<br>Part no.                                                   | red<br>(RAL 3000)<br>Part no.                                                      | white<br>(RAL 9003)<br>Part no.                                                     | grey<br>(RAL 7001)<br>Part no.                                                      | violet<br>(RAL 4005)<br>Part no.                                                    |
| 1.5                           | 16              | 2.6 - 3.2                  | 14.4                | <b>28145</b>                                                                      | <b>28146</b>                                                                      | <b>28147</b>                                                                      | <b>28148</b>                                                                      | <b>28149</b>                                                                       | <b>28150</b>                                                                        | <b>28151</b>                                                                        | <b>28152</b>                                                                        |
| 2.5                           | 14              | 3.2 - 3.9                  | 24.0                | <b>28153</b>                                                                      | <b>28154</b>                                                                      | <b>28155</b>                                                                      | <b>28156</b>                                                                      | <b>28157</b>                                                                       | <b>28158</b>                                                                        | <b>28159</b>                                                                        | <b>28160</b>                                                                        |
| 4                             | 12              | 3.6 - 4.4                  | 38.0                | <b>28161</b>                                                                      | <b>28162</b>                                                                      | <b>28163</b>                                                                      | <b>28164</b>                                                                      | <b>28165</b>                                                                       | <b>28166</b>                                                                        | <b>28167</b>                                                                        | <b>28168</b>                                                                        |
| 6                             | 10              | 4.1 - 5.0                  | 58.0                | <b>28169</b>                                                                      | <b>28170</b>                                                                      | <b>28171</b>                                                                      | <b>28172</b>                                                                      | <b>28173</b>                                                                       | <b>28174</b>                                                                        | <b>28175</b>                                                                        | <b>28176</b>                                                                        |
| 10                            | 8               | 5.3 - 6.4                  | 96.0                | <b>28177</b>                                                                      | <b>28178</b>                                                                      | <b>28179</b>                                                                      | <b>28180</b>                                                                      | <b>28181</b>                                                                       | <b>28182</b>                                                                        | <b>28183</b>                                                                        | <b>28184</b>                                                                        |