**H05RN-F/H05RNH2-F**

**Application and Description**

These cables are flexible, mainly recommended for use in electrical equipment under low stress in dry, damp and wet areas in indoor or outdoor environments. Commonly used for connection of electrical appliances when exposed to low mechanical strain in household, offices and for light utilities. Anywhere where there is minimal physical damage. Also suitable for fixed installation in furniture, decorative coverings, wall partitions and pre-fabricated building parts. Max operating voltage in single or three phase system is Uo/U 318/550 volts. In a direct current system max operating voltage is Uo/U 413/825 volts. They are ozone resistant, oil & fat resistant.

**Standard and Approval**


**Cable Construction**

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Class-5
- Rubber core insulation EI4 to VDE-0282 Part-1
- Color code VDE-0293-308
- Green-yellow grounding, 3 conductors and above
- Polychloroprene rubber (neoprene) jacket EM2

**Technical Characteristics**

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Flexing bending radius: 7.5 x Ø
- Fixed bending radius: 4.0 x Ø
- Temperature Range: -30º C to +60º C
- Short circuit temperature: +200 º C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

---

Rubber insulation
Bare copper conductor
Rubber outer jacket
# Cable Parameter

<table>
<thead>
<tr>
<th>AWG</th>
<th>No. of Cores x Nominal Cross Sectional Area # x mm²</th>
<th>Nominal Thickness of Insulation mm</th>
<th>Nominal Thickness of Sheath mm</th>
<th>Nominal Overall Diameter mm (min-max)</th>
<th>Nominal Copper Weight kg/km</th>
<th>Nominal Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>18(24/32)</td>
<td>2 x 0.75</td>
<td>0.6</td>
<td>0.8</td>
<td>5.7 - 7.4</td>
<td>14.4</td>
<td>80</td>
</tr>
<tr>
<td>18(24/32)</td>
<td>3 x 0.75</td>
<td>0.6</td>
<td>0.9</td>
<td>6.2 - 8.1</td>
<td>21.6</td>
<td>95</td>
</tr>
<tr>
<td>18(24/32)</td>
<td>4 x 0.75</td>
<td>0.6</td>
<td>0.9</td>
<td>6.8 - 8.8</td>
<td>30</td>
<td>105</td>
</tr>
<tr>
<td>17(32/32)</td>
<td>2 x 1</td>
<td>0.6</td>
<td>0.9</td>
<td>6.1 - 8.0</td>
<td>19</td>
<td>95</td>
</tr>
<tr>
<td>17(32/32)</td>
<td>3 x 1</td>
<td>0.6</td>
<td>0.9</td>
<td>6.5 - 8.5</td>
<td>29</td>
<td>115</td>
</tr>
<tr>
<td>17(32/32)</td>
<td>4 x 1</td>
<td>0.6</td>
<td>0.9</td>
<td>7.1 – 9.2</td>
<td>38</td>
<td>142</td>
</tr>
<tr>
<td>16(30/30)</td>
<td>3 x 1.5</td>
<td>0.8</td>
<td>1.0</td>
<td>8.6 - 11.0</td>
<td>29</td>
<td>105</td>
</tr>
<tr>
<td>16(30/30)</td>
<td>4 x 1.5</td>
<td>0.8</td>
<td>1.1</td>
<td>9.5 - 12.2</td>
<td>39</td>
<td>129</td>
</tr>
<tr>
<td>16(30/30)</td>
<td>5 x 1.5</td>
<td>0.8</td>
<td>1.1</td>
<td>10.5 - 13.5</td>
<td>48</td>
<td>153</td>
</tr>
<tr>
<td>14(50/30)</td>
<td>2 x 2.5</td>
<td>0.6</td>
<td>0.9</td>
<td>5.25±0.15x13.50±0.30</td>
<td>14.4</td>
<td>80</td>
</tr>
<tr>
<td>16(30/30)</td>
<td>2 x 1.5</td>
<td>0.6</td>
<td>0.8</td>
<td>5.25±0.15x13.50±0.30</td>
<td>21.6</td>
<td>95</td>
</tr>
</tbody>
</table>

- **H05RN-F**
- **H05RNH2-F**

Polychloroprene rubber outer jacket
Green/Yellow wire
Bare copper conductor
Rubber insulation

---

*www.caledonian-cables.co.uk*