BRITISH STANDARD
H0 7 V2 - K FLEXIBLE WIRES | 450/750 V

Annulated Copper Wire / PVC Insulation Rated 90°C

<table>
<thead>
<tr>
<th>Catalogue Code</th>
<th>Size mm²</th>
<th>Conductor Construction</th>
<th>No. of Wires</th>
<th>Nominal Wire Diameter mm</th>
<th>Maximum Conductor Resistance at 20°C</th>
<th>Insulation Thickness mm</th>
<th>Nominal Outer Diameter mm</th>
<th>Current Carrying Capacity Amp 70°C 90°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>12140520</td>
<td>1.0</td>
<td>28 X 0.20</td>
<td></td>
<td>19.5</td>
<td>0.6</td>
<td>2.2</td>
<td>13.6</td>
<td>16</td>
</tr>
<tr>
<td>12140530</td>
<td>1.5</td>
<td>28 X 0.25</td>
<td></td>
<td>13.3</td>
<td>0.7</td>
<td>3.0</td>
<td>17.5</td>
<td>21</td>
</tr>
<tr>
<td>12140540</td>
<td>2.5</td>
<td>47X 0.25</td>
<td></td>
<td>7.98</td>
<td>0.8</td>
<td>3.65</td>
<td>24</td>
<td>29</td>
</tr>
<tr>
<td>12140550</td>
<td>4.0</td>
<td>49 X 0.3</td>
<td></td>
<td>4.95</td>
<td>0.8</td>
<td>4.2</td>
<td>32</td>
<td>38</td>
</tr>
<tr>
<td>12140560</td>
<td>6.0</td>
<td>77 X 0.3</td>
<td></td>
<td>3.3</td>
<td>0.8</td>
<td>4.8</td>
<td>41</td>
<td>49</td>
</tr>
<tr>
<td>12140570</td>
<td>10</td>
<td>77 X 0.4</td>
<td></td>
<td>1.91</td>
<td>1.0</td>
<td>6.15</td>
<td>57</td>
<td>68</td>
</tr>
<tr>
<td>12140580</td>
<td>16</td>
<td>119 X 0.4</td>
<td></td>
<td>1.21</td>
<td>1.0</td>
<td>7.3</td>
<td>76</td>
<td>91</td>
</tr>
<tr>
<td>12140590</td>
<td>25</td>
<td>175 X 0.4</td>
<td></td>
<td>0.78</td>
<td>1.2</td>
<td>8.9</td>
<td>101</td>
<td>121</td>
</tr>
<tr>
<td>12140600</td>
<td>35</td>
<td>259 X 0.4</td>
<td></td>
<td>0.584</td>
<td>1.2</td>
<td>10.2</td>
<td>125</td>
<td>149</td>
</tr>
<tr>
<td>12140610</td>
<td>50</td>
<td>371 X 0.4</td>
<td></td>
<td>0.386</td>
<td>1.4</td>
<td>12.1</td>
<td>151</td>
<td>180</td>
</tr>
<tr>
<td>12140620</td>
<td>70</td>
<td>337 X 0.5</td>
<td></td>
<td>0.272</td>
<td>1.4</td>
<td>14.1</td>
<td>192</td>
<td>229</td>
</tr>
</tbody>
</table>

*NOTE:* Current carrying capacity based on IEE wiring regulation method B,2 cable single phase AC or DC, enclosed in conduit or in trunking etc. at 30°C ambient temperature. ref (IEE Wiring regulation 17th edition Table 4D1A)

SPECIFICATION:
Designation type 60227 IEC 02 & BS EN 50525-2-31 and SASO 1320 Flame Retardant to IEC 60332-1 Vertical Flame Propagation Test

CONDUCTOR:
Soft annealed copper to BS-EN 60228, class 5 flexible conductor

INSULATION:
Thermoplastic insulation type PVC/E according to IEC 60227 90˚C & wire heat resistant type TI-3 to BS EN 50363-3 also 70˚C PVC type TI-2 to BS EN 50363-3 is available.

IDENTIFICATION ON THE WIRE:
BAHRA CABLES CO. K.S.A 1.5 mm² CU/PVC 90 DEG C 450/750 V H07V2-K BS EN 50525-2-31 AND SASO 1320 TYPE 60227 IEC 02 & FR IEC 60227-1

FORMERLY (BAHRA CABLES CO.KS.A 1.5 mm² CU/PVC (450/750V) 90 DEG C, SASO 1320 FLEX TYPE 60227 IEC 02 FR IEC 60332-1)

NOTE: BS EN 50525-2-31 is the updated replacement for BS 6004
Bahra Cables Company was established in 2008 to serve Saudi & GCC Markets. It is based in Bahra industrial city located 25km from Jeddah. Bahra Cables Factory occupies over 500,000 square meters of prime manufacturing space together with associated design offices, laboratories and storage area. It specializes in Manufacturing and Distributing Electric Cables.

Bahra Cables Company is committed to the production of the best product quality and service, utilizing cutting edge European Technology in its manufacturing. The core technologies in production processes, material applications and logistic procedures were provided by German experts with key functions being managed by German engineers.

The organization has a lean vertical management structure which is designed to integrate with a highly developed IT-based structure. This partnership allows the rapid flow of information through the management chain and facilitates timely response in the best traditions of ‘hands on’ management. Bahra Cables Company has the flexibility to provide a versatile product range to serve the construction, electric utilities, distribution, industrial, oil & gas and petrochemical sectors. The cables produced comply with both American standards (CSA, ANSI and ICEA) and European standards (IEC, BS, NF and VDE specifications.)

The scope of this catalogue is to provide an in depth view of the technical information of the Low Voltage wires with PVC insulation.

AREA
Bahra Cables Company has a total land area of about 500,000 sqm at disposal. The built-up area, including offices and manufacturing plants, is more than 97,500 sqm. The factory extension currently under construction measures over 47,000 sqm. The allocated area for material and products’ storage is more than 89,000 sqm.

AMERICAN STANDARD
THHN - THWN | 600V

<table>
<thead>
<tr>
<th>Catalogue Code</th>
<th>Size Awg / 12 Parallel</th>
<th>Conductor Construction No. of Wires X Nominal Wire Diameter mm</th>
<th>Equivalent mm²</th>
<th>Maximum Conductor Resistance at 20°C ohm/km</th>
<th>Insulation Thickness mm</th>
<th>Nylon Thickness mm</th>
<th>Nominal Outer Diameter mm</th>
<th>Current Carrying Capacity (Amp)</th>
<th>Temp 90°C</th>
<th>Temp 75°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 11100010 16</td>
<td>19 x 0.298</td>
<td>1.31</td>
<td>13.1</td>
<td>0.38</td>
<td>0.1</td>
<td>2.48</td>
<td>24</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 11101010 16</td>
<td>19 x 0.298</td>
<td>1.31</td>
<td>13.1</td>
<td>0.38</td>
<td>0.1</td>
<td>2.48</td>
<td>24</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 11100020 14</td>
<td>13 x 0.4 + 6 x 0.3</td>
<td>2.08</td>
<td>8.62</td>
<td>0.38</td>
<td>0.1</td>
<td>2.8</td>
<td>35</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 11101020 14</td>
<td>13 x 0.4 + 6 x 0.3</td>
<td>2.08</td>
<td>8.62</td>
<td>0.38</td>
<td>0.1</td>
<td>2.8</td>
<td>35</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 11100030 12</td>
<td>13 x 0.50 + 6 x 0.40</td>
<td>3.31</td>
<td>5.43</td>
<td>0.38</td>
<td>0.1</td>
<td>3.29</td>
<td>40</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 11101030 12</td>
<td>13 x 0.50 + 6 x 0.40</td>
<td>3.31</td>
<td>5.43</td>
<td>0.38</td>
<td>0.1</td>
<td>3.29</td>
<td>40</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 11100040 10</td>
<td>13 x 0.64 + 6 x 0.47</td>
<td>5.26</td>
<td>3.409</td>
<td>0.51</td>
<td>0.1</td>
<td>4.13</td>
<td>55</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 11101040 10</td>
<td>13 x 0.64 + 6 x 0.47</td>
<td>5.26</td>
<td>3.409</td>
<td>0.51</td>
<td>0.1</td>
<td>4.13</td>
<td>55</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 11100050 10</td>
<td>13 x 0.8 + 6 x 0.60</td>
<td>8.37</td>
<td>2.144</td>
<td>0.76</td>
<td>0.13</td>
<td>5.45</td>
<td>80</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 11101050 10</td>
<td>13 x 0.8 + 6 x 0.60</td>
<td>8.37</td>
<td>2.144</td>
<td>0.76</td>
<td>0.13</td>
<td>5.45</td>
<td>80</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 11100060 12</td>
<td>13 x 1.01 + 6 x 0.74</td>
<td>13.3</td>
<td>1.35</td>
<td>0.76</td>
<td>0.13</td>
<td>6.3</td>
<td>105</td>
<td>95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 11101060 12</td>
<td>13 x 1.01 + 6 x 0.74</td>
<td>13.3</td>
<td>1.35</td>
<td>0.76</td>
<td>0.13</td>
<td>6.3</td>
<td>105</td>
<td>95</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* NOTE: 1 refer to packaging 500 Feet/Coil 2 refer to packaging 500 Feet/Spool
* Allowable maximum current carrying in Free Air, based on ambient temperature 30 ºC (Refer Table 310.17, NEC NFPA-70)
** For 10-14 AWG Sizes, refer to National Electrical Code® Table 240-4 (Under conductor overcurrent protection limitations).

SPECIFICATION:
Building wires types THHN/ THWN according to American standards UL 1851 & UL 2556
CONDUCTOR:
Round solid copper conductor, with outer sheath stranded and covered wire size is 19 x 0.298 mm².
INSULATION:
Thermoplastic PVC insulation suitable for 105 ºC dry and 75 ºC wet location according to UL 1851 & UL 2556.
JACKETING:
Polyamide Nylon PA6 over the PVC insulation provides an excellent protection against scratches, abrasion and resistance to oil and gasoline.
IDENTIFICATION ON THE WIRE:
BAHRA CABLES CO. KSA THHN / THWN 12 AWG 600 VOLS VW-1 GASOLINE & OIL RESISTANT II 105 DEG C

PACKING:
Very modern packing with standard length 500 feet coils or with standard length 500 Feet Spool

COLOR:
Available colors for wires Red, yellow, blue, black, brown, green, green/ yellow, white & grey. Other colors are available upon request.

The fourth digit of the product catalogue code number is for wire color identification.
STANDARD AMERICAN ambient temperature 30˚C ref(Table 310.17, NEC NFPA-70)*

* NOTE: 1 refer to packaging 500 Feet/Coil 240.4 (D) for conductor overcurrent protection limitations.

** For 10-14 AWG Sizes, Refer to National Electrical Code ® Section VW-1 GASOLINE & OIL RESISTANT II THHN / THWN 12 AWG 600 VOLTS

IDENTIFICATION ON THE WIRE:
excellent protection against scratch, abrasion and resistance to Polyamide Nylon PA6 over the PVC insulation provides an Wires are complying to Vertical Flame test requirements VW-1 wet location according to UL 83 & UL 1581 Thermoplastic PVC insulation suitable for 105 ºC dry and 75 ºC INSULATION:
provides more flexibility and optimal shape with less diameter

19 wire combination of round unilay stranded conductor

CONDUCTOR:

SPECIFICATION:

Building wires types THHN / THWN according to American standards UL 83 & UL 1581

CONDUCTOR:

Thermoplastic PVC insulation suitable for 105 ºC dry and 75 ºC wet location according to UL 83 & UL 1581 Wires are complying to Vertical Flame test requirements VW-1

JACKETING:

Polyamide Nylon PA6 over the PVC insulation provides an excellent protection against scratch, abrasion and resistance to oil and gasoline.

IDENTIFICATION ON THE WIRE:

BHRA CABLES CO. KSA THHN / THWN 12 AWG 600 VOLTS VW-1 GASOLINE & OIL RESISTANT II 105 DEG C

Amended Copper Wires / PVC Insulation / Nylon Jacket, UL 83, 105 ºC Insulation grade

Anchored Copper Wires / PVC Insulation / Nylon Jacket, UL 83, 105 ºC Insulation grade

Packaging

Very modern packing with standard length 500 feet cables or with standard length 500 Feet Spool

( or according to the requirement) with strong wrapping plastic easy to span and easy to use up to the last meter, Light weight environment friendly.

COLOR:

Available colors for wires Red, yellow, blue, black, brown, grey, green/ yellow, white & grey. Other colors are available upon request

The fourth digit of the product catalogue code number is for wire color identification.

Color Codes:

This text describes a range of electrical cables, including their specifications, insulation types, conductor sizes, and packaging details. It also mentions the availability of different colors and provides a list of specifications for the cables.
STANDARD THHN - THWN | 600V

AMERICAN

* 2 refer to packaging 500 Feet/Spool
** For 10-14 AWG Sizes, Refer to National Electrical Code® Section

Wires are complying to Vertical Flame test requirements VW-1 wet location according to UL 83 & UL 1581

Polyamide Nylon PA6 over the PVC insulation provides an

insulation

standards UL 83 & UL 1581

insulation

Thermoplastic PVC insulation suitable for 105 ºC dry and 75 ºC for conductor overcurrent protection limitations.

Other colors are available upon request

Grey.

Red, yellow, blue, black, brown, green, green/yellow, white & grey.

Available colors for wires

PACKING:

Very modern packing with standard length 1000m drums (or according to the requirement) with strong wrapping plastic easy to open and easy to use up to the last meter. Light weight environment friendly.

COLOR:

Available colors for wires

Red, yellow, blue, black, brown, green, green/yellow, white & grey.

Other colors are available upon request

The fourth digit of the product catalogue code number is for wire color identification.

Color Codes:

  Size: 16
  Conductor Construction: 19X0.298
  Wire Diameter: 1.31
  Insulation Thickness: 0.38
  Nylon Thickness: 0.1
  Nominal Diameter: 2.48
  Current Carrying Capacity (Amp): 24 10

  Size: 14
  Conductor Construction: 13X0.4+6X0.3
  Wire Diameter: 1.31
  Insulation Thickness: 0.38
  Nylon Thickness: 0.1
  Nominal Diameter: 3.31
  Current Carrying Capacity (Amp): 24 10

  Size: 12
  Conductor Construction: 13X0.5+6X0.4
  Wire Diameter: 1.31
  Insulation Thickness: 0.38
  Nylon Thickness: 0.1
  Nominal Diameter: 3.31
  Current Carrying Capacity (Amp): 24 10

  Size: 10
  Conductor Construction: 13X0.6+6X0.47
  Wire Diameter: 1.31
  Insulation Thickness: 0.38
  Nylon Thickness: 0.1
  Nominal Diameter: 3.31
  Current Carrying Capacity (Amp): 24 10

NOTE: Current carrying capacity based on IEE wiring regulation method B, 2 cables single phase AC or DC, enclosed in conduit on a well or in trunking etc. at 30 ºC ambient temperature. - rew (IEE Wiring Regulations 17th edition Table 40.4)

BRITISH STANDARD

H0 7 V2 - R STRANDED CONDUCTOR | 450/750 V

Annexed Stranded Copper Wires / PVC Insulation Rated 90ºC & wire heat resistant type TI - 3 to BS EN 50363-3 also 70 ºC Thermoplastic insulation type PVC/E according to IEC 60227 90

Annealed Stranded Copper Wires / PVC Insulation Rated 90 °C

Thermoplastic insulation suitable for 90 ºC and 75 ºC

Annealed stranded copper to BS-EN 60228, class 2 stranded conductor

Thermoplastic insulation type PVC/E according to IEC 60227 90 ºC & wire heat resistant type TI - 3 to BS EN 50363-3 also 70 ºC PVC type TI - 3 to BS EN 50363-3 is available.

IDENTIFICATION ON THE WIRE:

BANHA CABLES CO. KSA THHN / THWN 12 AWG 600 VOLTS VW-1 GASOLINE & OIL RESISTANT II 105 DEG C

IDENTIFICATION ON THE WIRE:

BANHA CABLES CO. KSA 1.5 MM² CU/PVC 90 DEG C

Flexible annealed copper conductor with a PVC/PVC outer sheath (or according to the requirement) with strong wrapping plastic easy to open and easy to use up to the last meter. Light weight environment friendly.

COLOR:

Available colors for wires

Red, yellow, blue, black, brown, green, green/yellow, white & grey.

Other colors are available upon request

The fourth digit of the product catalogue code number is for wire color identification.

Color Codes:
**SPECIFICATION:**

- International standard 60227 IEC 01 & BS EN 50525-2-31 and SASO 1320
- Flame Retardant to IEC 60332-1 Vertical Flame Propagation Test

**CONDUCTOR:**

- Soft annealed copper to BS-EN 60228, class 1 solid conductor

**INSULATION:**

- Thermoplastic insulation type PVC/E according to IEC 60227 90˚ C & wire heat resistant type TI - 3 to BS EN 50363-3, also 70˚ C
- PVC type TI-1 to BS EN 50363-3 is available

**IDENTIFICATION ON THE WIRE:**

- BAHRA CABLES CO.KSA 1.5 mm² CU/PVC 90 DEG C 450/750 V
- H07V2-U BS EN 50025-2-31 SASO 1320 TYPE 60227 IEC 01 FR
- IEC 60332-1

Formerly (BAHRA CABLES CO .KSA 1.5mm² cu/pvc 90 DEG C , SASO 1320 type 60227 IEC 01, FR IEC 60332-1)

**PACKING:**

- Very modern packing with standard length 100 yards coils (or according to the requirement) with strong wrapping plastic easy to open and easy to use up to the last meter.
- Lightweight environment friendly.

**COLOR:**

- Available colors for wires: Red, yellow, blue, black, brown, green, green/yellow, white & grey.
- Other colors are available upon request.
- The fourth digit of the product catalogue code number is for wire color identification.

**GENERAL INTRODUCTION**

Bahra Cables Company was established in 2008 to serve Saudi & GCC Markets. It is based in Bahra industrial city located 25km from Jeddah. Bahra Cables Factory occupies over 500,000 square meters of prime manufacturing space together with associated design offices, laboratories and storage area. It specializes in Manufacturing and Distributing Electric Cables.

The organization has a lean vertical management structure which is designed to integrate with a highly developed IT-based structure. This partnership allows the rapid flow of information through the management chain and facilitates timely response in the best traditions of ‘hands on’ management. Bahra Cables Company has the flexibility to provide a versatile product range to serve the construction, electric utilities, distribution, industrial, oil & gas and petrochemical sectors. The cables produced comply with both American standards (CSA, ANSI and ICEA) and European standards (IEC, BS, NF and VDE specifications.)

The scope of this catalogue is to provide an in-depth view of the technical information of the medium voltage cables up to 36 KV, with XLPE insulation to IEC 60502-2 and BS 6622.

**AREA**

Bahra Cables Company has a total land area of about 500,000 sqm at disposal. The built-up area, including offices and manufacturing plants, is more than 97,500 sqm. The factory extension currently under construction measures over 47,000 sqm. The allocated area for material and products’ storage is more than 89,000 sqm.

---

**NOTE:** BS EN 50525-2-31 is the updated replacement for BS 6004
BRITISH STANDARD
H0 7 V2 - K  FLEXIBLE WIRES | 450/750 V

Annealed  Copper Wire / PVC Insulation Rated 90 °C  
Designation type 60227 IEC 02 & BS EN 50525-2-31  AND SASO 1320

SPECIFICATION:
Designation type 60227 IEC 02 & BS EN 50525-2-31 and SASO 1320 Flame Retardant to IEC 60332-1 Vertical Flame Propagation Test

CONDUCTOR:
Soft annealed copper to BS-EN 60228 , class 5 flexible conductor

INSULATION:
Thermoplastic insulation type PVC/E according to IEC 60227 90˚ C & wire heat resistant type TI-3 to BS EN 50363 -3  also 70˚C PVC type TI -2 to BS EN 50363-3 is available.

IDENTIFICATION ON THE WIRE:
BAHRA CABLES CO. K.S.A 1.5 mm² CU/PVC 90 DEG C 450/750 V H07V2-K BS EN 50525-2-31 SASO 1320 TYPE 60227 IEC 02 FR IEC 60332-1

FORMERLY (BAHRA CABLES CO.KSA 1.5 mm² CU/PVC (450/750V) 90 DEG C, SASO 1320 FLEX TYPE 60227 IEC 02 FR IEC 60332-1)

PACKING:
Very modern packing with standard length 100 yards coils (or according to the requirement) with strong wrapping plastic easy to open and easy to use up to the last meter. Light weight environment friendly.

COLOR:
Available colors for wires
Red, yellow, blue, black, brown, green, green/ yellow, white & grey.
Other colors are available upon request

The fourth digit of the product catalogue code number is for wire color identification.

Color Codes:

NOTE: BS EN 50525-2-31 is the updated replacement for BS 6004

## Catalogue Code
<table>
<thead>
<tr>
<th>Size mm²</th>
<th>Conductor Construction No. of Wires X Nominal Wire Diameter mm</th>
<th>Maximum Conductor Resistance at 20°C ohm</th>
<th>Insulation Thickness mm</th>
<th>Nominal Outer Diameter mm</th>
<th>Current Carrying Capacity Amp 70 °C</th>
<th>90 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>12140520</td>
<td>1.0 28 x 0.20</td>
<td>19.5</td>
<td>0.6</td>
<td>2.2</td>
<td>13.6</td>
<td>16</td>
</tr>
<tr>
<td>12140530</td>
<td>1.5 28 x 0.25</td>
<td>13.3</td>
<td>0.7</td>
<td>3.0</td>
<td>17.5</td>
<td>21</td>
</tr>
<tr>
<td>12140540</td>
<td>2.5 47 x 0.25</td>
<td>7.98</td>
<td>0.8</td>
<td>3.65</td>
<td>24</td>
<td>29</td>
</tr>
<tr>
<td>12140550</td>
<td>4.0 49 x 0.3</td>
<td>4.95</td>
<td>0.8</td>
<td>4.2</td>
<td>32</td>
<td>38</td>
</tr>
<tr>
<td>12140560</td>
<td>6.0 77 x 0.3</td>
<td>3.3</td>
<td>0.8</td>
<td>4.8</td>
<td>41</td>
<td>49</td>
</tr>
<tr>
<td>12140570</td>
<td>10 77 X 0.4</td>
<td>1.91</td>
<td>1.0</td>
<td>6.15</td>
<td>57</td>
<td>68</td>
</tr>
<tr>
<td>12140580</td>
<td>16 119 X 0.4</td>
<td>1.21</td>
<td>1.0</td>
<td>7.3</td>
<td>76</td>
<td>91</td>
</tr>
<tr>
<td>12140590</td>
<td>25 175 X 0.4</td>
<td>0.78</td>
<td>1.2</td>
<td>8.9</td>
<td>101</td>
<td>121</td>
</tr>
<tr>
<td>12140600</td>
<td>35 259 X 0.4</td>
<td>0.554</td>
<td>1.2</td>
<td>10</td>
<td>125</td>
<td>149</td>
</tr>
<tr>
<td>12140610</td>
<td>50 371 X 0.4</td>
<td>0.386</td>
<td>1.4</td>
<td>12</td>
<td>151</td>
<td>180</td>
</tr>
<tr>
<td>12140620</td>
<td>70 337 X 0.5</td>
<td>0.272</td>
<td>1.4</td>
<td>14</td>
<td>192</td>
<td>229</td>
</tr>
</tbody>
</table>

* NOTE: Current carrying capacity based on IEE wiring regulation method B,2 cables single phase AC or DC, enclosed in conduit on a wall or in trunking etc. at 30 °C ambient temperature*. ref (IEE Wiring regulation 17th edition Table 4D1A)

NOTE: BS EN 50525-2-31 is the updated replacement for BS 6004
**GENERAL**

**INTRODUCTION**

**AMERICAN STANDARD**

**WIRE TYPES THHN-THWN**

**BRITISH STANDARD**

**WIRES**

**FLEXIBLE CABLES**

**TYPE H07V-R STRANDED CONDUCTOR**

**TYPE H07V-U SOLID CONDUCTOR**

**TYPE H07V-K FLEXIBLE CONDUCTOR**

---

### SPECIFICATION:

Designation type 60227 IEC 53, BS EN 50525-2-11 & SASO 1321

Flame Retardant to IEC 60332-1 Vertical Flame Propagation Test

**CONDUCTOR:**

Annealed flexible copper as per BS EN 60228 class 5 flexible conductor

**INSULATION:**

PVC type TI - 3 to BS EN 50363-3 rated 90 °C

**CORE IDENTIFICATION:**

2 cores brown - blue
3 cores green / yellow - blue - brown
4 cores green / yellow - blue - black - brown

**ASSEMBLING:**

Two, three or four insulated cores laid together (more cores are available on request)

**SHEATHING:**

White color or on request

**IDENTIFICATION ON THE WIRE:**

BAHRA CABLES CO. KSA 2X2.5mm² CU/PVC/PVC (Flex) 300/500V H05V2V2-F BS EN50525-2-11 FR IEC 60332-1 (60227 IEC 53)

**PACKING:**

100 yards coils or on request

---

### BRITISH STANDARD

**FLEXIBLE CABLES | 300/500 V**

Annealed Copper Wires / PVC Insulation / PVC Sheathing according to 60227 IEC 53, BS EN 50525-2-11 and SASO 1321

<table>
<thead>
<tr>
<th>Catalogue Code</th>
<th>Conductor</th>
<th>Number of Cores</th>
<th>Nominal Insulation Thickness</th>
<th>Nominal Sheath Thickness</th>
<th>Nominal Outer Diameter mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>13011003</td>
<td>1.5 30 X 0.25</td>
<td>2</td>
<td>0.7</td>
<td>0.8</td>
<td>7.6</td>
</tr>
<tr>
<td>13011002</td>
<td>3</td>
<td>3</td>
<td>0.7</td>
<td>0.9</td>
<td>8.3</td>
</tr>
<tr>
<td>13011003</td>
<td>4</td>
<td>4</td>
<td>0.7</td>
<td>1.0</td>
<td>9.3</td>
</tr>
<tr>
<td>13011004</td>
<td>2.5 50 X 0.25</td>
<td>2</td>
<td>0.8</td>
<td>1.0</td>
<td>9.3</td>
</tr>
<tr>
<td>13011005</td>
<td>3</td>
<td>3</td>
<td>0.8</td>
<td>1.0</td>
<td>9.9</td>
</tr>
<tr>
<td>13011006</td>
<td>4</td>
<td>4</td>
<td>0.8</td>
<td>1.1</td>
<td>11.3</td>
</tr>
<tr>
<td>13011007</td>
<td>4.0 56 X 0.3</td>
<td>2</td>
<td>0.8</td>
<td>1.2</td>
<td>10.8</td>
</tr>
<tr>
<td>13011008</td>
<td>3</td>
<td>3</td>
<td>0.8</td>
<td>1.2</td>
<td>11.5</td>
</tr>
<tr>
<td>13011009</td>
<td>4</td>
<td>4</td>
<td>0.8</td>
<td>1.4</td>
<td>13.0</td>
</tr>
<tr>
<td>13011010</td>
<td>6.0 84 X 0.3</td>
<td>2</td>
<td>0.8</td>
<td>1.2</td>
<td>12.0</td>
</tr>
<tr>
<td>13011011</td>
<td>3</td>
<td>3</td>
<td>0.8</td>
<td>1.4</td>
<td>13.15</td>
</tr>
<tr>
<td>13011012</td>
<td>4</td>
<td>4</td>
<td>0.8</td>
<td>1.4</td>
<td>14.4</td>
</tr>
<tr>
<td>13011013</td>
<td>10 80 X 0.4</td>
<td>2</td>
<td>1.0</td>
<td>1.4</td>
<td>15.2</td>
</tr>
<tr>
<td>13011014</td>
<td>3</td>
<td>3</td>
<td>1.0</td>
<td>1.4</td>
<td>16.1</td>
</tr>
<tr>
<td>13011015</td>
<td>4</td>
<td>4</td>
<td>1.0</td>
<td>1.4</td>
<td>17.7</td>
</tr>
<tr>
<td>13011016</td>
<td>16 126 X 0.4</td>
<td>2</td>
<td>1.0</td>
<td>1.4</td>
<td>17.3</td>
</tr>
<tr>
<td>13011017</td>
<td>3</td>
<td>3</td>
<td>1.0</td>
<td>1.4</td>
<td>18.4</td>
</tr>
<tr>
<td>13011018</td>
<td>4</td>
<td>4</td>
<td>1.0</td>
<td>1.4</td>
<td>20.2</td>
</tr>
</tbody>
</table>

**NOTE:** BS EN 50525 -2-11 is the updated replacement for BS 6500

---

BS EN 50525 -2-11 is the updated replacement for BS 6500

---

**ASSEMBLING:**

Two, three or four insulated cores laid together (more cores are available on request)

---

**SPECIFICATION:**

Designation type 60227 IEC 53, BS EN 50525-2-11 & SASO 1321

Flame Retardant to IEC 60332-1 Vertical Flame Propagation Test

**CONDUCTOR:**

Annealed flexible copper as per BS EN 60228 class 5 flexible conductor

**INSULATION:**

PVC type TI - 3 to BS EN 50363-3 rated 90 °C

**CORE IDENTIFICATION:**

2 cores brown - blue
3 cores green / yellow - blue - brown
4 cores green / yellow - blue - black - brown

**ASSEMBLING:**

Two, three or four insulated cores laid together (more cores are available on request)

**SHEATHING:**

White color or on request

**IDENTIFICATION ON THE WIRE:**

BAHRA CABLES CO. KSA 2X2.5mm² CU/PVC/PVC (Flex) 300/500V H05V2V2-F BS EN50525-2-11 FR IEC 60332-1 (60227 IEC 53)

**PACKING:**

100 yards coils or on request

---

**NOTE:** BS EN 50525 -2-11 is the updated replacement for BS 6500