Flat Cables with Round Pins (RFC)

AXOSTRIP®

www.axon-cable.com
**AXOSTRIP™** is a flat cable with round pins which can be soldered or inserted to achieve board-to-board interconnections.

### Advantages
- High flexibility,
- High resistance to vibration and bending: reliable connection joint,
- Lower production costs: wave-soldered with the other components onto the PCB in the same operation,
- Lower purchasing costs since no connectors are required for type C and type A,
- Type B and type D are dismountable, only one connector is needed,
- Preparation wire stripping and cutting to length is not required,
- ZIF interface if needed (when flat conductors on one end).

### General characteristics

#### Conductor
- Flexible (flat section)
- Transition
- Rigid (round conductor)

#### Insulation
Polyester, Polyimide or Aramid.
Processing forms

Type B or type D

Tin plated copper round conductors on one end with flat conductors on the other end.

Type C or type A

Tin plated copper round conductors on both ends, straight on both sides.

E = (N-1) x P,
W = (N+1) x P,
Where P = pitch; E=span; W=width
N = Number of conductors
### Dimensions

<table>
<thead>
<tr>
<th>Pitch P (mm)</th>
<th>1.00</th>
<th>1.25/1.27</th>
<th>1.90</th>
<th>2.00</th>
<th>2.54</th>
<th>5.08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. number of conductors</td>
<td>50</td>
<td>50</td>
<td>38</td>
<td>37</td>
<td>32</td>
<td>13</td>
</tr>
<tr>
<td>Insulated length (mm) L</td>
<td></td>
<td></td>
<td>15 to 999</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pin diameter (mm) Ø</td>
<td>0.32</td>
<td>0.32</td>
<td>0.40</td>
<td>0.40</td>
<td>0.51</td>
<td>0.51</td>
</tr>
<tr>
<td>Standard wire gauge (AWG)</td>
<td>28</td>
<td>28</td>
<td>26</td>
<td>26</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Flat conductor width (mm) C</td>
<td>0.7</td>
<td>0.8</td>
<td>1.3</td>
<td>1.3</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Flat conductor thickness (mm)</td>
<td>0.115</td>
<td>0.10</td>
<td>0.10</td>
<td>0.10</td>
<td>0.12</td>
<td>0.12</td>
</tr>
<tr>
<td>Margin (mm) M</td>
<td>1.00</td>
<td>1.25/1.27</td>
<td>1.905</td>
<td>2.00</td>
<td>2.54</td>
<td>2.54</td>
</tr>
</tbody>
</table>

Other pitches and designs available on request.

### Type of insulation tape

<table>
<thead>
<tr>
<th>Pitch P (mm)</th>
<th>1.00</th>
<th>1.25/1.27</th>
<th>1.90</th>
<th>2.00</th>
<th>2.54</th>
<th>5.08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulation tape</td>
<td>Polyester 105°C</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aramid 125°C</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Polymide 125°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Electrical properties

<table>
<thead>
<tr>
<th>Pitch P (mm)</th>
<th>1.00</th>
<th>1.25/1.27</th>
<th>1.90</th>
<th>2.00</th>
<th>2.54</th>
<th>5.08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. current rating at 20°C (A)</td>
<td>1</td>
<td>1.6</td>
<td>2.0</td>
<td>2.0</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Max. voltage rating (VAC)</td>
<td>60</td>
<td>60</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
</tbody>
</table>
### Identification code

<table>
<thead>
<tr>
<th>RFC</th>
<th>2.54</th>
<th>A 08 /0075</th>
<th>H</th>
<th>3.5 - 3.5</th>
<th>18.0 - 18.0</th>
<th>S</th>
<th>A</th>
<th>P</th>
<th>P</th>
</tr>
</thead>
</table>

- **Reinforcement type (F2):**
  - : no tape (for Type B or C)
  - P: Pull-up tape protection for Type A or D

- **Reinforcement type (F1):**
  - P: Pull-up tape protection (only for Type A)
  - L: Polyester reinforcement for Type B or D
  - : no tape (only for Type C)

- **Tape marking:**
  - A: Not marked

- **Conductor thickness**
  - S (standard)

- **Reinforcement length or pull-up protection F2 in mm**
  - 0 mm standard length for Type B or C
  - 18 mm standard length for Type A or D

- **Reinforcement length or pull-up protection F1 in mm**
  - 0 mm standard length for Type C
  - 8 mm standard length for Type B or D
  - 18 mm standard length for Type A

- **Strip length S2 in mm:**
  - (3.5 mm standard length for Type A, B, C or D)

- **Strip length S1 in mm:**
  - 4 mm standard length for Type B or D
  - 3.5 mm standard length for Type A or C

- **Insulation tape: H, B, W or Z**
  - (see above table)
  - H: Polyester
  - W: Aramid (Nomex®)
  - B: Polyester
  - Z: Polyimide (Kapton®)

- **Insulated length L (mm)**

- **Number of conductors N**

- **Processing form:**
  - Type A, B, C or D

- **Pitch P in mm**

- **Round to Flat Cable:**
  - AXOSTRIP®