

# Flat Cable Assemblies

## FDC-Flat Display Connections AXOLINK™

FDC-Flat Display Connections are made from AXOJUMP™ Flat Flexible Cables and industry standard display connectors such as DF-9, DF-19, FI-SE or FI-X.

### Advantages

Small dimensions: low profile, narrow width design,  
Low cost, high reliability,  
Excellent flexibility and flex-life.

### General characteristics

0.50 mm, 1.00 mm and 1.25 mm pitches,  
Standard FFC, ZIF interface  
FDC with DF-9 cable assemblies are compliant with VESA (Video Electronics Standard Association) FPD1-1 (Flat Panel Display Interface),



31 WAY FDC WITH DF-9 CONNECTOR

### Product availability

|                             | Connector type |        |        |       |
|-----------------------------|----------------|--------|--------|-------|
|                             | DF-9**         | DF-19* | FI-SE* | FI-X* |
| <b>FFC type</b>             |                |        |        |       |
| 0.50 (mm)                   | x              |        |        |       |
| 1.00 (mm)                   |                | x      |        | x     |
| 1.25 (mm)                   |                |        | x      |       |
| <b>Number of conductors</b> |                |        |        |       |
| 14                          |                | x      |        | x     |
| 20                          |                | x      | x      | x     |
| 30                          |                | x      |        | x     |
| 31                          | x              |        |        |       |
| 41                          | x              |        |        |       |

\*Standard version is shielded for these connector types. Non shielded versions also available.

\*\*Standard version is non-shielded (shielded version on request).

All versions can be supplied with custom folds.

## Processing forms

■ M: Header  
■ F: Receptacle

### DF9

Non-shielded version (FDC), Shielded version on request.

|                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|
| <b>AMF01</b><br> | <b>BFM08</b><br> | <b>AMM15</b><br> | <b>CMZ22</b><br> |
| <b>AMM02</b><br> | <b>BMM09</b><br> | <b>AFF16</b><br> | <b>CFZ23</b><br> |
| <b>AFF03</b><br> | <b>BFF10</b><br> | <b>BMF17</b><br> | <b>CFZ24</b><br> |
| <b>AMF04</b><br> | <b>AMM11</b><br> | <b>BMM18</b><br> | <b>DMZ25</b><br> |
| <b>BMM05</b><br> | <b>AFF12</b><br> | <b>BFF19</b><br> | <b>DMZ26</b><br> |
| <b>BFF06</b><br> | <b>AMF13</b><br> | <b>BMF20</b><br> | <b>DFZ27</b><br> |
| <b>BMF07</b><br> | <b>AFM14</b><br> | <b>CMZ21</b><br> | <b>DFZ28</b><br> |

**DF19**

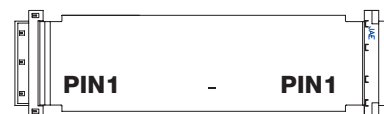
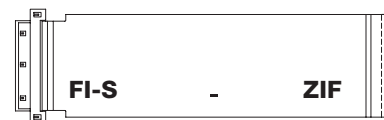
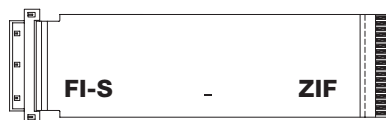
Non-shielded version (FDC), shielded version (FDB).

**EMM29****EMM30****FMZ31****FMZ32**

FDC WITH DF-19 CONNECTOR

**FI-SE**

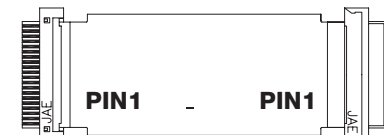
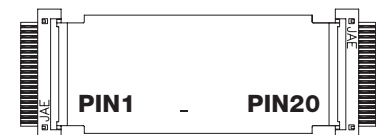
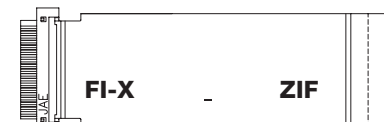
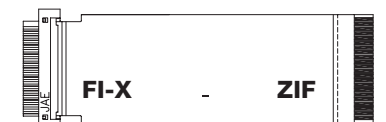
Non-shielded version (FDC), shielded version (FDB).

**EMM33****EMM34****FMZ35****FMZ36**

41 WAY FDC WITH DF-9 CONNECTOR

**FI-X**

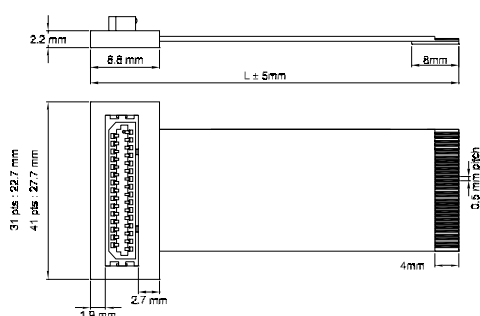
Non-shielded version (FDC), shielded version (FDB).

**EMM37****EMM38****FMZ39****FMZ40**

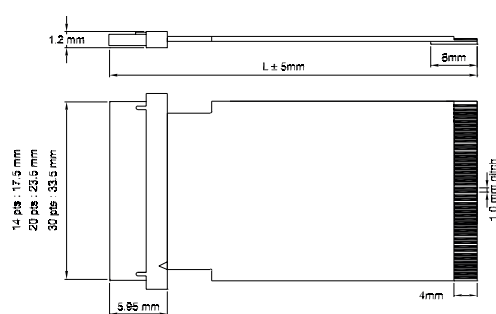
41 WAY FDC WITH DF-9 CONNECTOR

## Dimensions

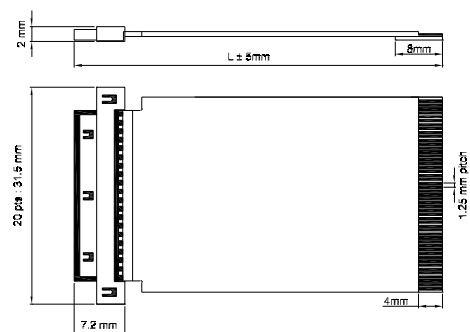
DF-9



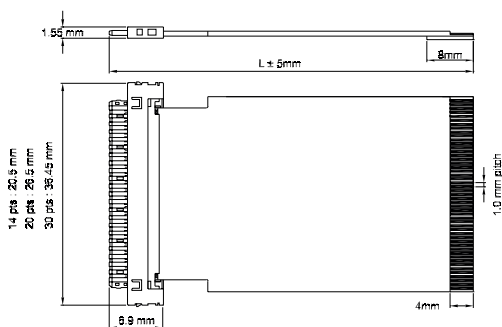
DF-19



FI-SE



FI-X



Where there is a ZIF connector at one end, the standard number of ways for the ZIF will be 2 more than the DF-19/FI-SE/FI-X connector at the other end (for DF-9 versions the number of ways is equal for both connectors).

If same number of ways (14, 20 or 30) is required for the ZIF on DF-19/FI-SE/FI-X versions, AXON' can punch the ZIF end to ensure compatibility.

## Off-the-shelf products

AXON' keeps several standard lengths of Flat Flexible Cables in stock with 31 or 41 conductors for the different assembly types to assure a short delivery time. Immediately after receipt of your order, the termination process is started. Any connector configuration shown on the following pages is possible.

## Standard AXOLINK™ assembly lengths

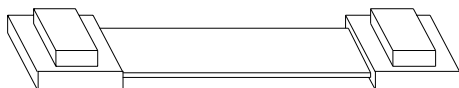
- 76 mm
- 102 mm
- 152 mm
- 203 mm
- 254 mm

## Processing forms

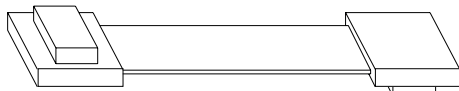
### Connection schemes

Only for  
DF-9

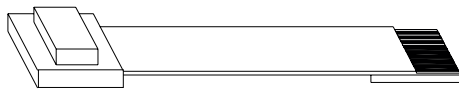
A



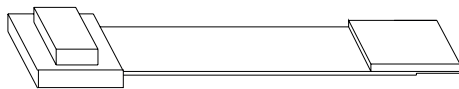
B



C

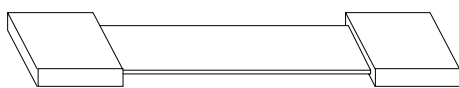


D

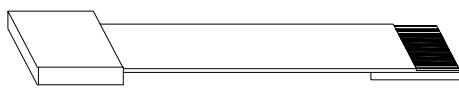


Only for  
DF-19, FI-SE and FI-X

E



F



For "ZIF" ending of DF-19 / FI-SE / FI-X versions, connector ways = number of conductors + 2.

## Quick prototyping for electrical validation

AXON' can provide small quantities of AXOLINK™ prototypes for electrical validation. Dependent on the availability of cable, AXON' may propose the exact length required or a slightly different length to provide the quickest response.

## Special products

AXON' can also provide special AXOLINK™ products, in particular:

- special number of conductors
- special markings,
- any special length,
- moisture protection of the assembly,
- folded versions,
- ferrites on the assembly,
- shielding,
- shielding with grounding,
- gold plating: for DF-19/FI-SE and FI-X the gold plating available on the ZIF end.

## Identification code

**FDC 41 / 0100 A M M 02**

### Connection scheme

1 through 40 as defined  
on the connection scheme

### Connector type C2

M: MALE (Header) - DF-9 / DF-19 / FI-SE / FI-X  
F: FEMALE (Receptacle) - DF-9 only  
Z: ZIF

### Connector type C1

M: MALE (Header) - DF-9 / DF-19 / FI-SE / FI-X  
F: FEMALE (Receptacle) - DF-9 only

### Connection type

A: connector-connector - same face  
B: connector-connector - opposite face  
C: DF-9 to ZIF - same face  
D: DF-9 to ZIF - opposite face  
E: connector - connector  
(only for DF-19 / FI-SE / FI-X)  
F: connector - ZIF (only for DF-19 / FI-SE / FI-X)

### Length

End to end length including connector (mm)  
(minimum length : 52 mm )

### Number of conductors

31 or 41 for DF-9  
14, 20 or 30 for DF-19  
20 for FI-SE  
14, 20 or 30 for FI-X

### FDC = Non shielded version

(DF-9, DF-19, FI-SE, FI-X connectors)

### FDB = Shielded version

(DF-9, DF-19, FI-SE, FI-X connectors)

Any special version on request