Flat Flexible Cable 0.5mm, 1mm and 1.25mm Pitch





Flat Flexible Cables consist of flat tin plated copper conductors insulated between Polyester based tapes. Depending on the type of interconnection used, reinforcement tapes can be added to the cable ends to allow for connector compatibility.

Features:

- · Flat flexible cable for use with FFC/FCP range of connectors
- Reinforcing tape bonded to underside for cable to ensure easy and accurate insertion into the connector
- Overall length 210mm

Type Of End:

Type Of Reinforcement

Standard Polyester reinforcement tapes (blue or red) for termination with connectors.



Stripping / Connection: General Schematic (Type A)

98277823 9729263 9729778 9727962 9727962 9727962			ΞP 1	E	w
S1	L	S2	М		_

General Characteristics (Standard Products)

Pitch	: P	0.5	1	1.25
Туре		A*		
Number of Conductor (N) Type A (min. / max.)		10 to 50	10 to 30	4 to 40
Cable width	: W	(N+1) 0.5	(N+1) 1.0	(N+1) 1.25
Margin	: M	0.35	0.65	0.85
Conductor width	: C	0.30	0.70	0.80
Strip length	: S	4		
Insulated length	: L	202		
Conductor thickness Flexible	: F (Type A)		0.05	
			Dim	ensions : Millimetres

* Stripped at both ends on two sides with reinforcements on the same side.



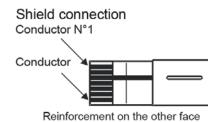
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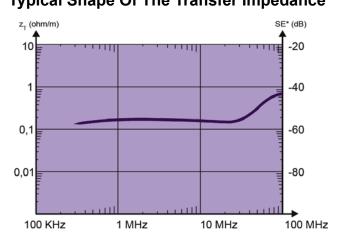
Shielding:

The parameter of Transfer Impedance Z_T given in ohms/meter is used to characterise the shielding of flat cables. As this notion is dependent on the type of product, rather than on the application, it is better suited than the alternative notion of "Shielding Efficiency", given in dB, for accurately defining shield specifications.

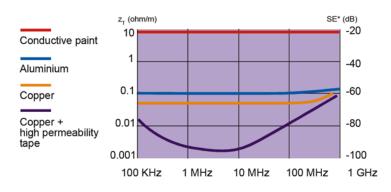
For the shielding of flat cables, the best compromise between good electromagnetic protection, light weight, good flexibility and a reasonable cost has been achieved with 10µm Aluminium foils which are wrapped around the flat cable to assure 360° coverage. This shield is grounded to one or several conductors by welding.



Typical Shape Of The Transfer Impedance



Comparison Of The Transfer Impedance



*SE = Shielding efficiency : equivalent to a 50Ω load.



Specifications:

Transfer impedance value	Electromagnetic protection of the flat cable
1Ω/m	Poor
0.1Ω/m	Fair
0.01Ω/m	Good
0.001Ω/m	Excellent

Applications:

Flat Flexible Cables are used for board-to-board interconnections in numerous applications including CD players, VCRs, printers, laptop and handheld computers, LCD displays, car, radios, TVs, telephones, facsimile machines, hifi equipment, satellite receivers and decoders.

Advantages:

Small dimensions	: Low profile and narrow width design for higher packaging densities
Low cost / high reliability	: Compatible with ZIF/LIF connectors (Zero/Low Insertion Force)
Flexlife	: Greater flexlife than equivalent PVC products

FFC Flexlife:

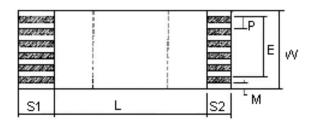
The following table summarises flex tests which have been carried out on a 1.00mm pitch FFC sample on a bend radius of 5mm. The sample was fitted between two plates, the bottom plate and the top plate fixed. Flexing is repeated until one conductor breaks.

Specifications:

Type of FFC	Type of Tape	Min. Number of cycles (for a 5mm bend radius	
Flexible version	L	30,000	

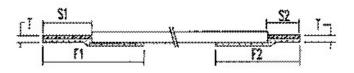
Stripping / Connection:

General Schematic (Type A)



TYPE A:

2 reinforcements F1 and F2 on the same side



Removable connection (connector / connector):

Use of 2 blue (B), red (R) or "easy-to-insert" (E) reinforcement tapes.



Flat Flexible Cable 0.5mm, 1mm and 1.25mm Pitch

pro-**Power**

Part Number Table

Description	Part Number
Ribbon Cable, Flat, 0.5mm, 10 way	AXO-00005
Ribbon Cable, Flat, 0.5mm, 14 way	AXO-00006
Ribbon Cable, Flat, 0.5mm, 16 way	AXO-00007
Ribbon Cable, Flat, 0.5mm, 20 way	AXO-00008
Ribbon Cable, Flat, 0.5mm, 24 way	FFC0.50A24/0202L4
Ribbon Cable, Flat, 0.5mm, 30 way	AXO-00010
Ribbon Cable, Flat, 0.5mm, 35 way	FFC0.50A35/0202L4
Ribbon Cable, Flat, 0.5mm, 40 way	FFC0.50A40/0202L4
Ribbon Cable, Flat, 0.5mm, 45 way	FFC0.50A45/0202L4
Ribbon Cable, Flat, 0.5mm, 50 way	FFC0.50A50/0202L4
Ribbon Cable, Flat, 1mm, 10 way	AXO-00015
Ribbon Cable, Flat, 1mm, 14 way	AXO-00016
Ribbon Cable, Flat, 1mm, 16 way	AXO-00017
Ribbon Cable, Flat, 1mm, 20 way	AXO-00018
Ribbon Cable, Flat, 1mm, 26 way	AXO-00019
Ribbon Cable, Flat, 1mm, 30 way	AXO-00020
Ribbon Cable, Flat, 1.25mm, 4 way	AXO-00021
Ribbon Cable, Flat, 1.25mm, 6 way	AXO-00022
Ribbon Cable, Flat, 1.25mm, 8 way	AXO-00023
Ribbon Cable, Flat, 1.25mm, 10 way	AXO-00024
Ribbon Cable, Flat, 1.25mm, 14 way	AXO-00025
Ribbon Cable, Flat, 1.25mm, 16 way	AXO-00026
Ribbon Cable, Flat, 1.25mm, 20 way	AXO-00027
Ribbon Cable, Flat, 1.25mm, 30 way	AXO-00028
Ribbon Cable, Flat, 1.25mm, 210mm, 40 way	AXO-00029

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