0.5mm, 1.0mm 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)



General Characteristics (Standard Products)

Pitch	: P	0.5	1.0	1.25	
Туре		A*			
Number of Conductor (N) Type A (Minimum/Maximum)		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			

Dimensions: Milimetres

^{*} stripped at both ends on two sides with reinforcements on the same side.



Page 1 22/12/07 V1.0

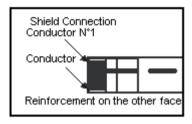




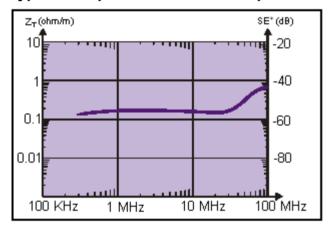
Shielding:

The parameter of transfer impedance Z_T given in ohms/meter is used to characterise the shielding of flat cables. As this notion is dependant 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.

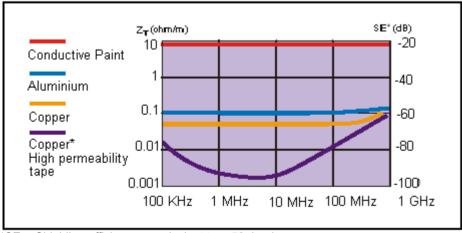
For the shielding of flat cables, the best compromise between good electromagnetic protection, light weight, good flexibility and a reasonable cost has been achieved with $10\mu m$ Aluminium foils which are wrapped around the flat cable to assure 360° coverage. This shield is grounded to one or several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



Typical Shape of the Transfer Impedance



Comparison of the Transfer Impedance



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







Specifications

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

Specification Table

Type of FFC	Type of Tape	Minimum number of cycles (for a 5mm bend radius)	
Flexible version	L	30,000	

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.

Specifications

Pitch	Number of Ways	Length	Strip Length	Reinforcement length	Part Number
0.5	20	101 to 200 ±4	±1	±2	AXO-00008

Dimension: Millimetres



0.5mm, 1.0mm and 1.25mm Pitch



Notes:

International Sales Offices:



Tel No: ++61 1300 361 005 Fax No: ++61 1300 361 225



FINLAND - Farnell

Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411



Tel No: ++ 39 02 93 995 200 Fax No: ++ 39 02 93 995 300



SPAIN - Farnell

Tel No: 901 20 20 80 Fax No: 901 20 20 90



AUSTRIA - Farnell

Tel No: ++ 43 662 2180 680 Fax No: ++ 43 662 2180 670



FRANCE - Farnell

Tel No: ++ 33 474 68 99 99 Fax No: ++ 33 474 68 99 90



ΜΔΙ ΔΥΚΙΔ -

Tel No: ++ 60 3 7873 8000 Fax No: ++ 60 3 7873 7000



SWEDEN - Farnell Tel No: ++ 46 8 730 50 00

Fax No: ++ 46 8 83 52 62



BELGIUM - Farnell

Tel No: ++ 32 3 475 2810 Fax No: ++ 32 3 227 3648



GERMANY - Farnell

Tel No: ++ 49 89 61 39 39 39 Fax No: ++ 49 89 613 59 01



NETHERLANDS - Farnell

Tel No: ++ 31 30 241 7373 Fax No: ++ 31 30 241 7333



SWITZERLAND - Farnell

Tel No: ++ 44 204 64 64 Fax No: ++ 44 204 64 54



BRAZIL - Farnell-Newark

Tel No: ++ 55 11 4066 9400 Fax No: ++ 55 11 4066 9410



HONG KONG -

Tel No: ++ 852 2268 9888 Fax No: ++ 852 2268 9899



NEW ZEALAND - Farnell

Tel No: 0800 90 80 80 Fax No: 0800 90 80 81



UK - Farnell

Tel No: ++ 44 8701 200 200 Fax No: ++ 44 8701 200 201



CHINA - Farnell-Newark

Tel No: ++86 10 6238 5152 Fax No: ++86 10 6238 5022



HUNGARY - Farnell

Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209



NORWAY - Farnell

Tel No: 800 146 70 Fax No: 800 146 76



UK-CPC

++ 44 8701 202 530 ++ 44 8701 202 531



CZECH REPUBLIC - Farnell

Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209



INDIA - Farnel

Tel No: ++ 44 870 1200 208



PORTUGAL - Farnell

Tel No: ++ 34 93 475 8804 Fax No: ++ 34 93 474 5288



Tel No: 800 463 9275



DENMARK - Farnell

Tel No: ++ 45 44 53 66 44 Fax No: ++ 45 44 53 66 06



Tel No: ++ 353 1 830 9277 Fax No: ++ 353 1 830 9016



RUSSIA - Farnell

Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209



Tel No: ++ 44 8701 200 208

For enquiries from all other markets

Fax No: ++ 44 8701 200 209

ESTONIA - Farnell

Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411



ISRAEL - Farnell

Tel No: ++ 180 937 0015 Fax No: ++ 180 937 0014



SINGAPORE -

Tel No: ++ 65 6788 0200 Fax No: ++ 65 6788 0300

http://www.farnell.com http://www.newark.com

http://www.cpc.co.uk

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Pro-Power is the registered trademark of the Group. © Premier Farnell plc 2007.

PRO-POWER **Quality Cables**

> 22/12/07 V1.0 Page 4