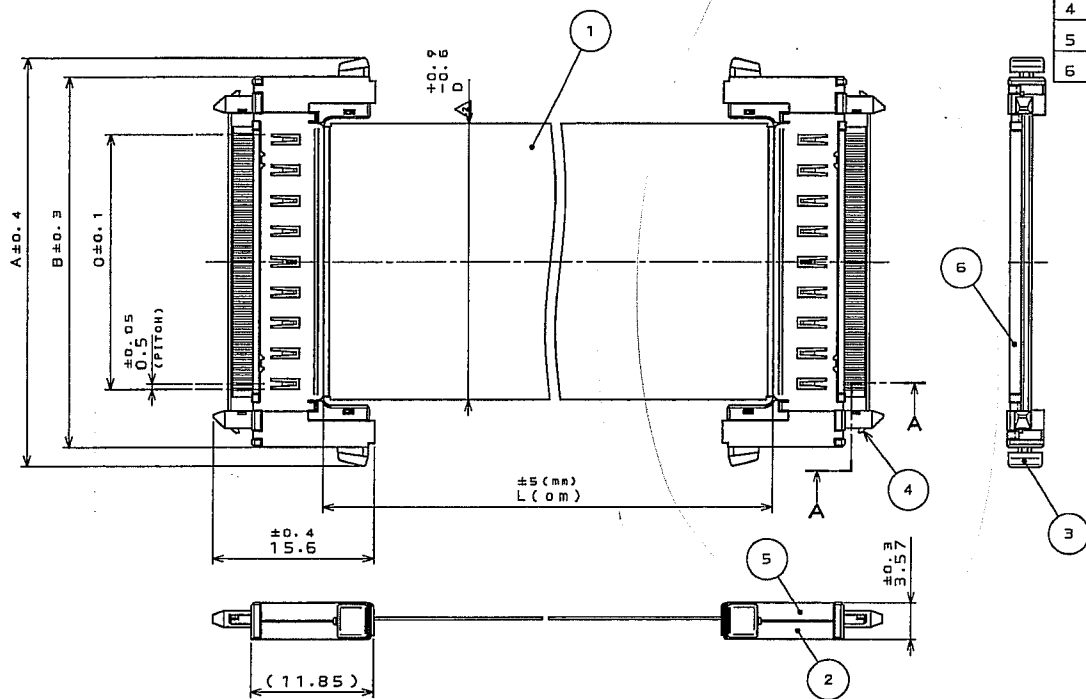


图例号(DRAWING NO.) SJ069131

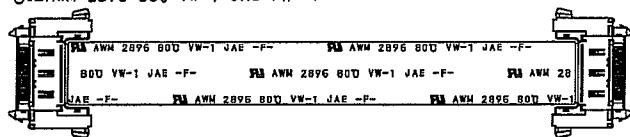


NOTE 1.DESIGNATION
注1.命名法

JFO4R0R0 * * * * *

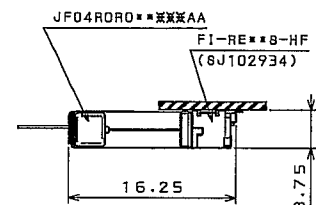
	MODIFICATION CODE
	CABLE LENGTH L(cm)
	No. OF CONTACT(TABLE1)
	CONNECTOR TYPE MODIFICATION CODE
	CONNECTOR TYPE R:F-I-R
	CONNECTOR TYPE MODIFICATION CODE
	CONNECTOR TYPE R:F-I-R
SERIES	

▲ NOTE 2.WHEN UL STYLE NO. IS DISPLAYED IN FFO,
 EITHER OF FOLLOWING ① OR ② OR ③ IS PRINTED.
 ▲ 注2.UL STYLE No.を表示する場合、下記 ① ② ③ のいずれかが印刷されます。
 ① **FW**AWM 2896 80V VW-1 JAE -F-
 ② **FW**AWM 2896 80V VW-1 JAE-WX -F-
 ③ **FW**AWM 2896 80V VW-1 JAE-PH -F-

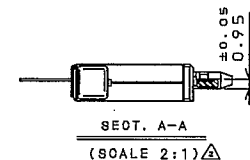


STATE OF UL STYLE No. PRINT(REF.)
UL STYLE NO. 表示狀態(參考)
(SCALE 1:1)

版 数 REV.	年月日 DATE	DCN NO.	変更内容 DESCRIPTION	製 図 DR.	担 当 CHK.	査 閲 APPD.	承認 APPD.
2	18.Sep.2007	061019	ADDED NOTE 2,FFO WIDTH OHANGE		M.TAKAKU	———	Y.TATEBE
3	17.Jan.2008	064013	REVISED DIMENSION A,ADDED ITEM	H.TSURUOKA	M.TAKAKU	———	Y.TATEBE
4	10.Apr.2008	065480	REVISED NOTE.	H.TSURUOKA	M.TAKAKU	———	Y.TATEBE
5	20.Apr.2009	067783	ADDED ITEM.	H.TSURUOKA	M.TAKAKU	———	Y.KUBOTA
6	20.Nov.2009	069000	ADDED ITEM.	H.TSURUOKA	M.TAKAKU	———	<i>11. Sign</i>



MATED CONDITION(REF.)

嵌合状態図(参考)(SCALE 2:1) Δ TABLE 2 Δ_2 TABLE 1

No. of CONTACT	$\Delta A \pm 0.4$	$B \pm 0.3$	$C \pm 0.1$	$\Delta D \pm 0.9$
21	24.95	21.25	10	12.1
31	29.95	26.25	15	17.1
41	34.95	31.25	20	22.1
51	39.95	36.25	25	27.1

TITLE (NAME, or Contract)	ト 5 (mm) [mm]
JF04R0R0※※010AA	10
JF04R0R0※※015AA	15
JF04R0R0※※020AA	20
JF04R0R0※※025AA	25
JF04R0R0※※030AA	30
△ JF04R0R0※※035AA	35
JF04R0R0※※040AA	40
△ JF04R0R0※※045AA	45
JF04R0R0※※050AA	50
△ JF04R0R0※※055AA	55
JF04R0R0※※060AA	60
JF04R0R0※※080AA	80
JF04R0R0※※100AA	100

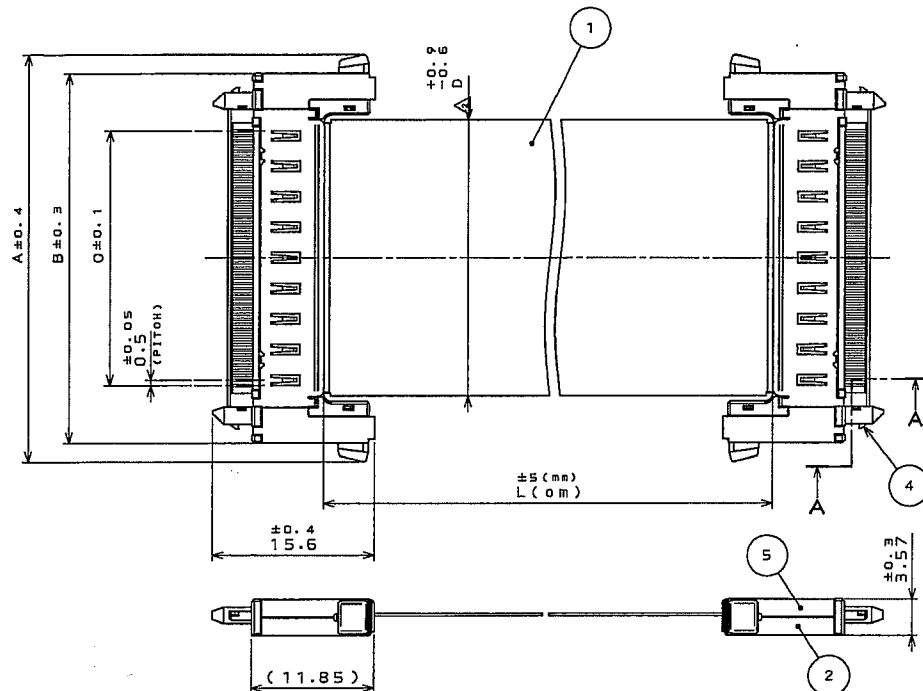
6	COVER INSULATOR	2	HEAT RESISTING PLASTIC		UL94V-0
5	COVER SHELL	2	COPPER ALLOY	TIN PLATING	
4	LOCK SPRING	4	STAINLESS STEEL		
3	BASE INSULATOR	2	HEAT RESISTING PLASTIC		UL94V-0
2	BASE SHELL	2	COPPER ALLOY	TIN PLATING	
1	FFO	1	CONDUCTOR: COPPER ALLOY INSULATION TAPE: PET/ADHESIVES	CONTACT AREA: GOLD OVER NICKEL	
符号 NO.	名称 DESCRIPTION	数量 QTY.	材料 MATERIAL	加工 FINISH	備註 REMARKS
仕様書 (SPECIFICATION) JAOS-10294-1		第1版 (ORIGINAL DATE) 7.JUL.2005		尺寸 (SCALE) 2:1	品番 (SERIAL) JF04
公差 (GENERAL TOLERANCE)		製図 DR.		名称 (TITLE)	日本航空電子工業株式会社 Reference Only
寸法 (DIMENSION) 角度 (ANGLES)		担当 CHK.	M.TAKAKU		JAE ELECTRONICS INDUSTRY, LTD.
. ±0.8		発注 APPD.		JF04R0R0※※※※AA (NOTE 1)	図面番号 (DRAWING NO.)
.X ±0.4		承認 APPD.	Y.TATEBE	質量 (MASS)	
.XX ±0.1					
.XXX ±					
					SJ061931

JAE CONNECTOR DIV. PROPRIETARY.
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00F-0-212E(03.08)

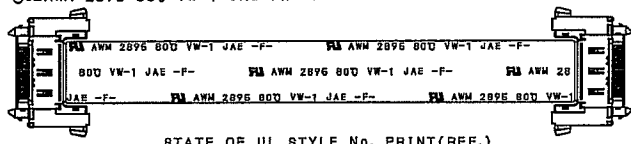
JF04R0R0S 35AA

LE1690PS
(CON ENIMVHO) 各要図



NOTE 1. DESIGNATION
① 命名法
JF04R0R0S 35AA
MODIFICATION CODE
CABLE LENGTH L(mm)
No. OF CONTACT (TABLE 1)
CONNECTOR TYPE MODIFICATION CODE
CONNECTOR TYPE R:FI-R
CONNECTOR TYPE MODIFICATION CODE
CONNECTOR TYPE R:FI-R
SERIES

NOTE 2. WHEN UL STYLE NO. IS DISPLAYED IN FFO, EITHER OF FOLLOWING ① OR ② OR ③ IS PRINTED.
① FFW 2895 800 VW-1 JAE -F-
② FFW 2895 800 VW-1 JAE -WX -F-
③ FFW 2895 800 VW-1 JAE -PH -F-



STATE OF UL STYLE NO. PRINT (REF.)
UL STYLE NO. 表示状態 (参考)
(SCALE 1:1)

版数 REV.	年月日 DATE	DON NO.	変更内容 DESCRIPTION	製図 DR.	担当 CHK.	査閲 APPD.	承認 APPD.
2	18.Sep.2007	061019	ADDED NOTE 2, FFO WIDTH CHANGE		M.TAKAKU		Y.TATEBE
3	17.Jan.2008	064013	REVISED DIMENSION A, ADDED ITEM	H.TSURUOKA	M.TAKAKU		Y.TATEBE
4	10.Apr.2008	065480	REVISED NOTE.	H.TSURUOKA	M.TAKAKU		Y.TATEBE
5	20.Apr.2009	067783	ADDED ITEM.	H.TSURUOKA	M.TAKAKU		Y.KUBOTA
6	20.Nov.2009	069000	ADDED ITEM.	H.TSURUOKA	M.TAKAKU		Y. Sugi

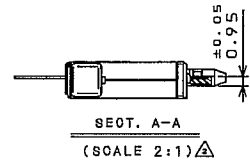
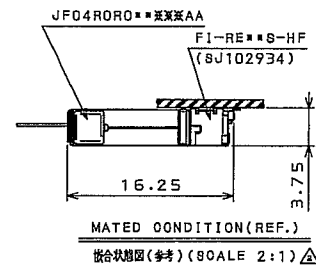


TABLE 1

No. OF CONTACT	A ±0.4	B ±0.3	C ±0.1	D ±0.5
21	24.95	21.25	10	12.1
31	29.95	26.25	15	17.1
41	34.95	31.25	20	22.1
51	39.95	36.25	25	27.1

TABLE 2

TITLE (NAME of Contact)	L ±0.5 (mm)
JF04R0R0S 35AA	10
JF04R0R0S 35AA	15
JF04R0R0S 35AA	20
JF04R0R0S 35AA	25
JF04R0R0S 35AA	30
JF04R0R0S 35AA	35
JF04R0R0S 35AA	40
JF04R0R0S 35AA	45
JF04R0R0S 35AA	50
JF04R0R0S 35AA	55
JF04R0R0S 35AA	60
JF04R0R0S 35AA	80
JF04R0R0S 35AA	100

※ 本製品は、JAE 社製で、
※ 本製品は、JAE 社製で、
※ 本製品は、JAE 社製で、

6	COVER INSULATOR	2	HEAT RESISTING PLASTIC		UL94V-0
5	COVER SHELL	2	COPPER ALLOY	TIN PLATING	
4	LOCK SPRING	4	STAINLESS STEEL		
3	BASE INSULATOR	2	HEAT RESISTING PLASTIC		UL94V-0
2	BASE SHELL	2	COPPER ALLOY	TIN PLATING	
1	FFO	1	CONDUCTOR: COPPER ALLOY INSULATION TAPE: PET/ADHESIVE	CONTACT AREA: GOLD OVER NICKEL	
符号 NO.	名称 DESCRIPTION	個数 QTY.	材料 MATERIAL	製図 DR.	備考 REMARKS
仕様書 (SPECIFICATION)	JAE-10294-*	第1版 (ORIGINAL DATE)	7.Jul.2005	名称 (TITLE)	JF04R0R0S 35AA (NOTE 1)
公差 (GENERAL TOLERANCE)		製図 DR.		担当 CHK.	M.TAKAKU
寸法 (DIMENSION)		製図 APPD.		承認 APPD.	Y.TATEBE
. ±0.8	° ±				
.X ±0.4	°X ±				
.XX ±0.1					
.XXX ±					
質量 (MASS)					
図面番号 (DRAWING NO.)					SJ069131
版数 (REV.)					6



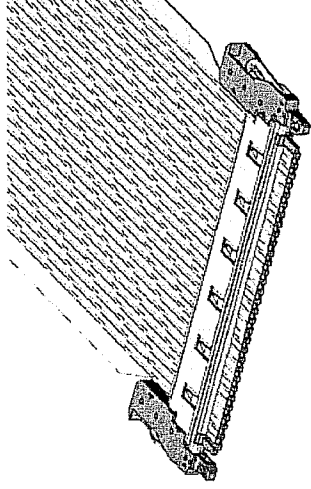
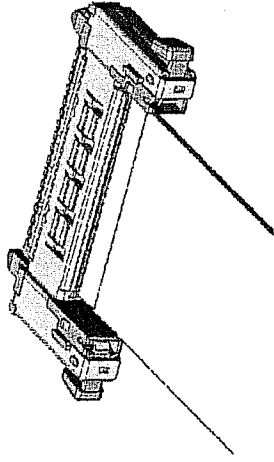
FFC Harness for High Speed Transmission

JF04 Series

CONNECTOR

MB-0163-1

November 2006

RoHS Compliant

<<Outline>>

High speed serial transmission such as LVDS, TMDS(HDMI), PCI express are beginning to be widely used, not only in the personal computer market but also in various markets such as TV, consumer device, PPC and medical device markets. At the same time in the expanding markets including LCD TV, there are strong demands for reasonably priced high speed transmission cables.

JF04 is the connector harness just to answer those demands.

Features

- Can be mated with FI-R and FIX connectors
- 1m min. transmission of serial signal of LVDS, TMDS etc. is possible
- Matches with 100ohm differential characteristic impedance.
Ground of the cable area is reinforced by the ground layer.
- Features of the connector mating area is in common with FI-X, FI-R

General Specification

FI-R Type
JF04R0R0**

- | | |
|---|---|
| • No. of Contacts: 21, 31, 41, 51 pos. | • Rated current: AC, DC each 0.3A/ terminal |
| • Contact resistance: 40m ohm max. | • Insulation resistance: 100M ohm min. |
| • Dielectric withstanding voltage:
AC250 Vr.m.s per minute | • Pitch: 0.5mm |
| • Operating temperature:
-40 Deg. C to +80 Deg. C | • Impedance: Connector; 100ohm $\pm$ 15%
FFC; 100ohm $\pm$ 10% |

General Specification

FI-R Type
JF04X0X0**

- No. of Contacts: 30 pos.
- Contact resistance: 40m ohm max.
- Dielectric withstanding voltage:
AC250 V.r.m.s per minute
- Operating temperature:
-40 Deg. C to +80 Deg. C
- Rated current: AC, DC each 0.4A/ terminal
- Insulation resistance: 100M ohm min.
- Pitch: 1mm
- Impedance: Connector; 100ohm $\pm$ 15%
FFC; 100ohm $\pm$ 10%

Materials and Finishes

FI-R Type

JF04R0R0**

Components	Materials and Finishes
FFC	PET, copper/ Contact portion Au plating
Base shell	Copper alloy/ Sn plating
Base insulator	Heat resistant plastic/ none
Lock spring	Stainless steel/ none
Cover shell	Copper alloy/ Sn plating
Cover insulator	Heat resistant plastic/ none

FI-R Type

JF04X0X0**

Components	Materials and Finishes
FFC	PET, Copper/ Contact portion Au plating
Base shell	Stainless steel/ Sn plating
Base insulator	Heat resistant plastic/ none
Lock spring	Stainless steel/ none
Cover shell	Stainless steel/ Sn plating
Cover insulator	Heat resistant plastic/ none

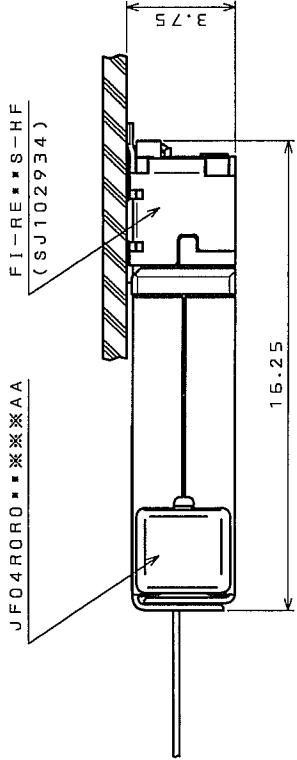
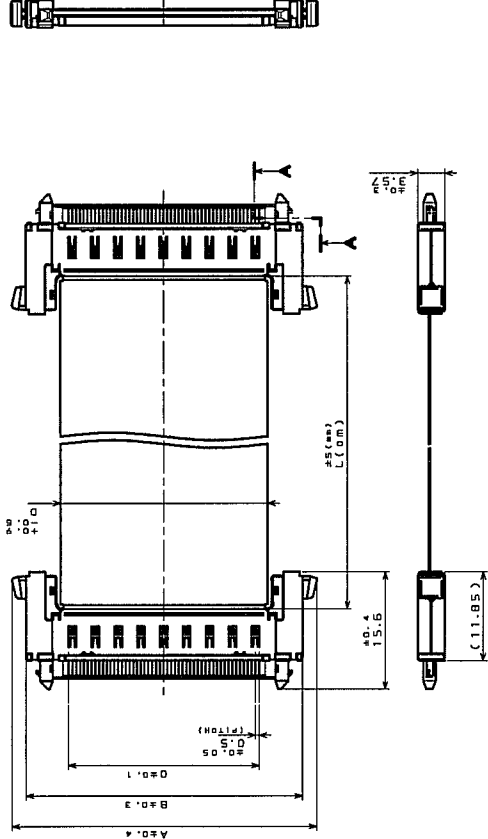
Ordering Information

FI-R Type (SJ069131)

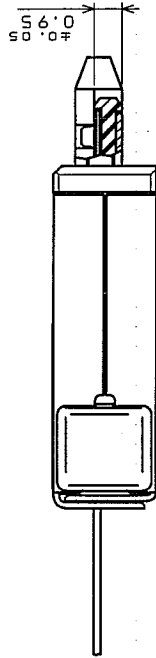
JF04	R	0	R	0	***	AA	
Series		Connector type R: FI-R		Cable length		Modification code	
Modify code				No. of Contacts: 21, 31, 41, 51 pos.			
Connector type R: FI-R				Modification code			

*Connectors are not sold individually.

Unit: mm



MATED CONDITION (REF.)
嵌合状態図 (参考) (SCALE 5:1)



Dimensions

NO. OF CONTACT	A ± 0.4	B ± 0.3	C ± 0.1	D ± 0.1
21	25	21.25	10	12.1
31	30	26.25	15	17.1
41	35	31.25	20	22.1
51	40	36.25	25	27.1

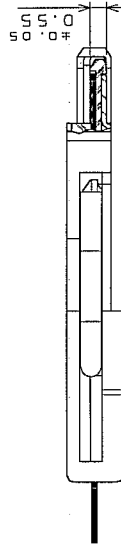
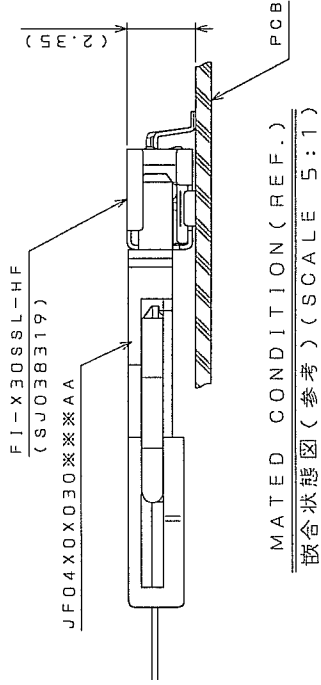
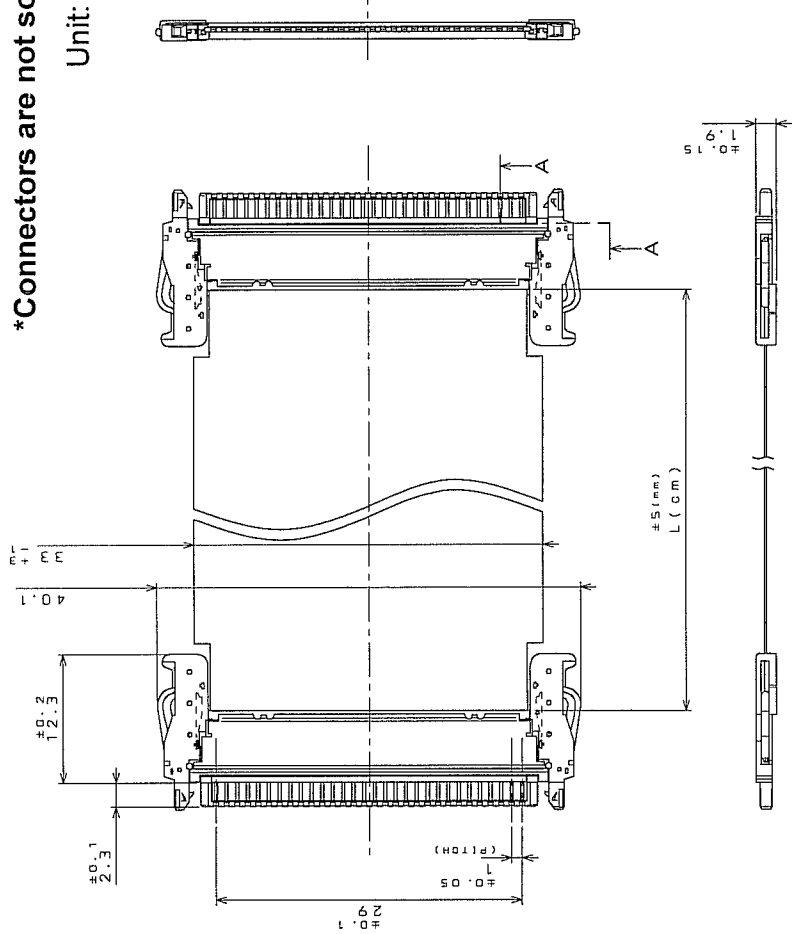
Ordering Information

FI-X Type (SJ069142)

JF04	X	0	X	0	**	***	AA
Series	Connector type R: FI-X	Modify code					Modification code
				No. of Contacts: 30 pos.		Cable length	
				Modification code			

*Connectors are not sold individually.

Unit: mm



SECT. A-A
(SCALE 5:1)

Lineup

FI-R Type

No. of Con- tacts	Length of FPC	Part Number	No. of Con- tacts	Length of FPC	Part Number
21	10cm	JF04R0R021010AA	31	10cm	JF04R0R031010AA
	20cm	JF04R0R021020AA		20cm	JF04R0R031020AA
	30cm	JF04R0R021030AA		30cm	JF04R0R031030AA
	40cm	JF04R0R021040AA		40cm	JF04R0R031040AA
	50cm	JF04R0R021050AA		50cm	JF04R0R031050AA
	80cm	JF04R0R021080AA		80cm	JF04R0R031080AA
	100cm	JF04R0R021100AA		100cm	JF04R0R031100AA

No. of Con- tacts	Length of FPC	Part Number	No. of Con- tacts	Length of FPC	Part Number
41	10cm	JF04R0R041010AA	51	10cm	JF04R0R051010AA
	20cm	JF04R0R041020AA		20cm	JF04R0R051020AA
	30cm	JF04R0R041030AA		30cm	JF04R0R051030AA
	40cm	JF04R0R041040AA		40cm	JF04R0R051040AA
	50cm	JF04R0R041050AA		50cm	JF04R0R051050AA
	80cm	JF04R0R041080AA		80cm	JF04R0R051080AA
	100cm	JF04R0R041100AA		100cm	JF04R0R051100AA

FI-X Type

No. of Contacts	Length of FPC	Part Number
30	20cm	JF04R0R021020AA

Note 1. Above shows the standard length

Please contact us concerning lengths not in above

Japan Aviation Electronics Industry, Limited

Product Marketing Division
Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539
Phone: +81-3-3780-2787 FAX: +81-3-3780-2946

Notice: Products shown in this leaflet are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.

Recommended applications: Computers, Office machines, Measuring devices, Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.

* The specifications in this brochure are subject to change without notice. Please contact JAE for information.

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