

Stig Wahlström AB



HIROSE

Connectors

■ THE CONNECTOR SELECTOR

CONNECTING THE FUTURE!



Stig Wahlström AB

About HIROSE:



Elektronik

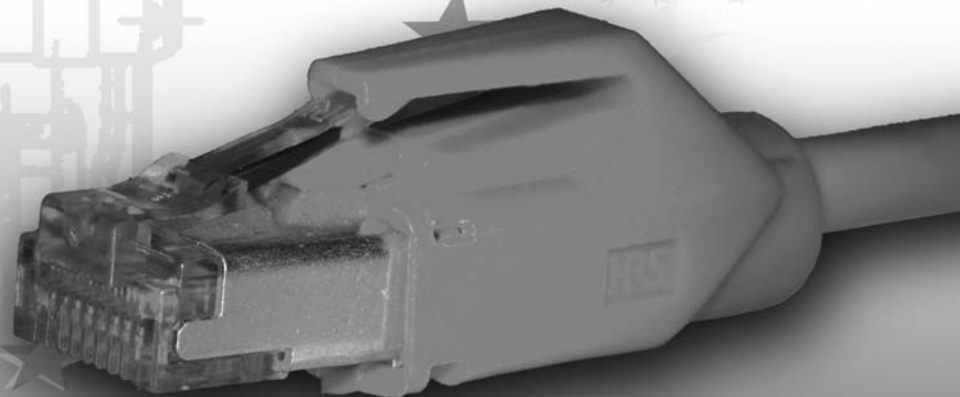
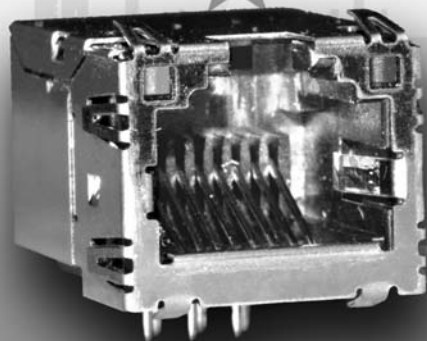
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HIROSE®

HIROSE Electric is a specialist in industrial-use for electronic equipment, a field in which it has a proud track record of original product development. In recent years, the company has been aggressively expanding into customer electronics and other fields, mobilizing its accumulated expertise to carve out a succession of new markets.

By supplying a broad range of high-quality connectors suitable for every conceivable type of application, **HIROSE Electric** has won the patronage of leading global companies in the fields of computer and communications equipment, instrumentation and automotive and consumer electronic equipment.

The main product range consists of multi-pin connectors which come in various formats: circular and rectangular, for wire and FPC cable, and for printed circuit boards and PC cards. High-performance coaxial and optical fiber connectors from the second principal product range. They are used in a wide variety of speed applications. The company also manufactures various specialized devices and instruments.



Board-to-Board-Connector Overview

Stack Height	Series	No. of Contacts	Pitch	Male	Female
1.20	DF26	9, 16	1.1	SMT	
1.50	DF18	20, 30, 40, 50, 60, 70, 80, 100, 120	0.4	SMT	SMT
1.50	DF23	10, 14, 16, 18, 20, 30, 40, 50, 60	0.5	SMT	SMT
1.70	DF26	9, 16	1.1	SMT	
2.00	DF16	20, 30, 40, 50, 60, 80	0.50	SMT	SMT
	FX11L	60, 80, 100, 120	0.50	SMT	SMT
2.5	DF16	20, 30, 40, 50, 60, 80	0.50	SMT	SMT
	FX11	60, 80, 100, 120	0.5	SMT	SMT
2.54–5.50	MDF7	3, 5, 6, 7 ~ 25, 26, 30, 34, 40, 46	2.54	DIP	DIP
2.54–8.00	MDF7P	3, 5, 6, 7 ~ 25, 26, 30, 34, 40, 46	2.54	DIP	DIP
2.54–12.00	MDF7B	3, 5, 6, 7 ~ 25	2.54	DIP	DIP
2.90	DF9	31	1.00	SMT	SMT
3.00	DF12	20, 30, 32, 36, 40, 50, 60	0.50	SMT	SMT
	FX8	60, 80, 90, 100, 120, 140, 160, 180, 200, 240, 280	0.60	SMT	SMT
	FX11	60, 80, 100, 120	0.5	SMT	SMT
3.50	DF12	20, 30, 36, 40, 50, 60	0.50	SMT	SMT
4.00	DF12	20, 30, 36, 40, 50, 60	0.50	SMT	SMT
	DF17	26, 30	0.50	SMT	SMT
	FX10	80, 100, 120, 140	0.50	SMT	SMT
	FX8	60, 80, 90, 100, 120, 140, 160, 180, 200, 240, 280	0.60	SMT	SMT
	DF15	20, 30, 40, 50	0.65	SMT	SMT
4.30	DF9	9, 11, 13, 15, 17, 19, 21, 23, 25, 31, 41, 51	1.00	SMT	SMT
5.00	DF12	20, 30, 36, 40, 50, 60	0.50	SMT	SMT
	DF17	20, 30, 40, 50, 60, 70, 80	0.50	SMT	SMT
	FX10	80, 100, 120, 140	0.50	SMT	SMT
	FX8C	60, 80, 100, 120, 140, 160, 200, 240, 280	0.60	SMT	SMT
	DF15	20, 30, 40, 50	0.65	SMT	SMT
	FX6	20, 40, 50, 60, 80, 100	0.80	SMT	SMT
	FX4	20, 32, 40, 52, 60, 68, 80	1.27	DIP	DIP
5.08–15.00	MDF7C	3, 5, 6, 7 ~ 25	2.54	DIP	DIP
5.10	A3C	4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 32, 50	2.00	DIP	DIP
	A3A & A3C	4, 6, 8, 10, 12, 14, 16, 20, 24, 28, 32	2.00	DIP	SMT

Stack Height	Series	No. of Contacts	Pitch	Male	Female
5.50	DF17	26, 80	0.50	SMT	SMT
6.00	DF17	20, 30, 40, 50, 60, 80	0.50	SMT	SMT
	FX8C	60, 80, 100, 120, 140, 160, 200, 240, 280	0.60	SMT	SMT
	DF15	20, 30, 40, 50	0.65	SMT	SMT
6.00	FX6	20, 40, 50, 60, 80, 100	0.80	SMT	SMT
	FX4	20, 32, 40, 52, 60, 68, 80	1.27	SMT/DIP	SMT/DIP
	A3A	4, 6, 8, 10, 12, 14, 16, 20, 24, 28, 32	2.00	SMT	SMT
	A3C & A3A	4, 6, 8, 10, 12, 14, 16, 20, 24, 28, 32, 50	2.00	SMT	DIP
	A3A & A3B	4, 6, 8, 10, 12, 14, 16, 20, 24, 28, 32	2.00	DIP	SMT
	A3C & A3B	4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 32	2.00	DIP	DIP
6.50	DF17	80	0.50	SMT	SMT
6.60	DF3	2 ~ 15	2.00	DIP	DIP
7.00	DF17	20, 30, 40, 60, 70, 80	0.50	SMT	SMT
	FX8C	60, 80, 100, 120, 140, 160, 200, 240, 280	0.60	SMT	SMT
	DF15	20, 30, 40, 50	0.65	SMT	SMT
	FX6	20, 40, 50, 60, 80, 100	0.80	SMT	SMT
	FX4	20, 32, 40, 52, 60, 68, 80	1.27	SMT/DIP	SMT/DIP
7.50	DF3	2 ~ 15	2.00	SMT	DIP
7.55	DF11	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24	2.00	DIP	SMT
		26, 28, 30, 32			
7.80	DF11	6, 8, 10, 12, 14, 16, 18, 20, 22, 24	2.00	DIP	DIP
		26, 28, 30, 32			
8.00	DF17	20, 30, 40, 60, 80	0.50	SMT	SMT
	DF15	20, 30, 40, 50	0.65	SMT	SMT
	FX6	20, 40, 50, 60, 80, 100	0.80	SMT	SMT
	FX4	20, 32, 40, 52, 60, 68, 80	1.27	SMT/DIP	SMT/DIP
8.20	DF11	4, 6, 8, 10, 12, 14, 18, 20, 22, 24	2.00	SMT	SMT
		26, 28, 30, 32, 40			
8.45	DF11	6, 8, 10, 12, 14, 16, 18, 20, 22, 24	2.00	SMT	DIP
		26, 28, 30, 32			
9.00	FX8C	60, 80, 100, 120, 140, 160, 200, 240, 280	0.60	SMT	SMT
	FX6	20, 40, 50, 60, 80, 100	0.80	SMT	SMT

New products are continuously under development, please contact your local HIROSE office if the specifications you require are not detailed.

Stack Height	Series	No. of Contacts	Pitch	Male	Female
	FX4	20, 32, 40, 52, 60, 68, 80	1.27	SMT/DIP	SMT/DIP
10.00	FX8C	60, 80, 100, 120, 140, 160, 200, 240, 280	0.60	SMT	SMT
	FX4	20, 32, 40, 52, 60, 68, 80	1.27	SMT/DIP	SMT/DIP
11.00	FX8C	60, 80, 100, 120, 140, 160, 200, 240, 280	0.60	SMT	SMT
11.00	FX4	20, 32, 40, 52, 60, 68, 80			
12.00	FX8C	60, 80, 100, 120, 140, 160, 200, 240, 280	0.60	SMT	SMT
	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	DIP	DIP
12.04	A2 & HIF3H	6, 10, 12, 14, 20	2.54	DIP	DIP
	A1 & HIF3H	6, 10, 12, 16, 18, 20, 24, 26, 30, 34	2.54	DIP	DIP
		40, 50, 60, 64			
12.10	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	SMT	SMT
12.20	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	DIP	SMT
	HIF3FC/B&FB	10, 16, 20, 26, 30, 34, 40, 50, 60	2.54	DIP	DIP
	HIF3FC/B&H	10, 16, 20, 26, 30, 34, 40, 50, 60, 64	2.54	DIP	DIP
12.30	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	SMT	SMT
12.70	PCN6	5, 10, 15, 20, 22	2.50	DIP	DIP
	PCN6B	31	3.00	DIP	DIP
13.00	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	DIP	DIP
13.20	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	DIP	SMT
14.00	FX8C	60, 80, 100, 120, 140, 160, 200, 240, 280	0.60	SMT	SMT
	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	DIP	DIP
	HIF7	40, 50, 60, 68, 80, 100, 120	1.27	DIP	DIP
	HIF3H	6, 10, 12, 16, 20, 24, 26, 30, 34, 40, 50, 60	2.54	DIP	DIP
	HIF3H&FB	10, 16, 20, 26, 30, 34, 40, 50, 60	2.54	DIP	DIP
14.10	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	SMT	DIP
14.20	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	DIP	SMT
14.45	HIF7	40, 50, 80, 100	1.27	SMT	DIP
14.75	HIF7	40, 50, 80, 100	1.27	DIP	SMT
14.80	HIF6	20, 26, 32, 34, 40, 50, 52, 60, 68, 80, 100	1.27	DIP	DIP
15.00	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	DIP	DIP
15.20	HIF7	40, 50, 80, 100	1.27	SMT	SMT
16.00	FX8C	60, 80, 100, 120, 140, 160, 200, 240, 208	0.60	SMT	SMT

Stack Height	Series	No. of Contacts	Pitch	Male	Female
	FX2	20, 32, 40, 52, 60, 68, 80, 100, 120	1.27	DIP	DIP
16.80	PCN10	20, 32, 50, 64, 90, 96, 100, 128	2.54	DIP	DIP
	PCN10&13	20, 32, 50, 64, 90, 100	2.54	DIP	DIP
	PCN10&12	20, 32, 50, 64, 90, 96, 100	2.54	DIP	DIP
16.90	HIF3F & FB	10, 16, 20, 26, 30, 34, 40, 50, 60	2.54	DIP	DIP
	HIF3F & H	10, 16, 20, 26, 30, 34, 40, 50, 60	2.54	DIP	DIP
17.00	PCN5D	13, 23, 31, 45, 53, 65	1.27	DIP	DIP
17.10	HIF3E & FB	10, 16, 20, 26, 30, 34, 40, 50, 60	2.54	DIP	DIP
	HIF3E & H	10, 12, 16, 18, 20, 26, 30, 34, 40, 50, 60	2.54	DIP	DIP
17.30	PCN11	20, 32, 44, 50, 64, 90, 100	2.54	P/FIT	P/FIT
17.90	PCN10	48	2.54	DIP	DIP
25.00	PCN10HB	16, 20, 24, 32, 44, 40	2.54	DIP	DIP
28.20	FX2M6	60	1.27	DIP	DIP
28.40	FX2M6	60	1.27	DIP	DIP
29.20	FX2M6	60	1.27	DIP	DIP
30.00	PCN10HA	16, 20, 24, 32, 44, 50	2.54	DIP	DIP
30.20	FX2M6	60	1.27	DIP	DIP
30.40	FX2M6	60	1.27	DIP	DIP
34.40	FX2M6	60	1.27	DIP	DIP
35.00	PCN10H	16, 20, 24, 32, 44, 50	2.54	DIP	DIP
36.40	FX2M6	60	1.27	DIP	DIP
40.00	PCN10HD	16, 24, 44, 50	2.54	DIP	DIP
44.00	FX2M6	60	1.27	DIP	DIP
44.20	FX2M6	60	1.27	DIP	DIP
45.00	PCN10HC	16, 24, 44, 50	2.54	DIP	DIP
45.20	FX2M6	60	1.27	DIP	DIP
46.20	FX2M6	60	1.27	DIP	DIP
50.00	FX2M6	60	1.27	DIP	DIP
60.00	FX2M6	60	1.27	DIP	DIP
66.00	FX2M6	60	1.27	DIP	DIP

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HIROSE Connector Selector - Contents

PCB/PCB Connectors

Detailed in this section are many different ranges of connectors that can be used to connect PCB's. Listed in pitch order and starting at 0.4mm, this section details connectors that can stack from 1.2mm to 66mm.

Wire/PCB Connectors

Listed in pitch order, with variants from 1mm to 7.92mm pitch connectors for high power applications. Between these pitches are over 45 connector ranges, with solutions utilising discrete wire, or flat flexi cables.

FFC/FPC Connectors

Hirose offers wide range of ZIF connectors with pitch of 0.5 and 0.3mm with the high quality flip lock design which is required more and more from the market.

Input/Output Connectors (I/O)

Detailed in this section are over 50 product ranges, which allow connection from 2 - 132 circuits. Solutions are offered from a range of circular connectors, high density/fine pitch, as well as shielded and non-shielded telephone modular connectors.

Automotive Connectors

Today's cars contain more sophisticated electronic equipment than ever before - this trend is set to continue. The integration of mobile telephones, GPS and navigation systems to name but a few, all requiring specialist interconnection. This is the field in which Hirose are bringing solutions.

Memory Media Connectors

Hirose offers a vast range of connectors for use with PC card, compact flash and SO DIMM cards to name but a few. Please refer to the section for the complete listing.

Fibre Optic Connectors

Hirose have been manufacturing fibre optic components for over 25 years and have played a key part in the development of many of the world-wide connector standards, namely FC, SC, MU. More recently Hirose have developed the world's first optical connector for SMT devices.

Co-Axial Connectors

This section contains many of the industry standards, as well as a range of surface mounted miniature co-axial connectors, the smallest of which is just 1.5mm high as well as coaxial switches.

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PCB to PCB



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Serie	DF 18	DF 23	FX10	FX11/FX 11L
Typical Product				
Contact Pitch (mm)	new! 0.4	new! 0.5	0.5 Signal 0.75 Ground	0.5 Signal 0.75 Ground
Stacking Height	1.5	1.5	4, 5	2, 2.5, 3
Application	Parallel	Parallel	Parallel	Parallel
PCB Mounting	SMT	SMT	SMT	SMT
No. of Contacts	20, 30, 40, 50, 60, 70, 80, 100, 120	10, 14, 16, 18, 20, 30, 40, 50, 60	80, 100, 120, 140	60, 80, 100, 120
Rated Voltage	AC 30	AC 50	AC 50	AC 50
Current Rating (Amps)	0.3	0.3	0.3	0.3
Notes	Low Profile, Self Alignment range: 0.33 mm, large Pick-up area for automatic mounting, etc	Low profile, compatible PCB layout for "drop in" replacement for other supplier, etc	Shielded matched impedance 10 - 1 signal ground ratio Non-shielded version available in 96,120,144,168 contacts	Shielded matched impedance 10 - 1 signal ratio Non-shielded version available in 68,92,116,140 contacts
Further Information Source	Presentation Material	DF23 Datasheet	FX10 Datasheet	FX11L Datasheet

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IT 1	DF 16	DF 12	DF 17	FX 8/FX8C
				
new! 0.5	0.5	0,5	0.5	0,6
	2, 2.5	3 - 5	4 - 8	3 - 16
Parallel	Parallel	Parallel	Parallel	Parallel
SMT	SMT	SMT	SMT	SMT
168, 252	14,20,30,34, 40,50,60,80	20, 30, 32, 38, 40, 50, 60	20,26,30,40, 50,60,70,80 (100 under planing)	60,80,90,100,120,140
AC 50	AC 50	AC 50	AC 50	AC 100
0.4	0.3	0,3	0.3	0,4
Impedance matching using a 4-layer board, supports multiple connectors per board, customized transmission module	Optional guide posts and reinforcement hardware	Option guide posts and reinforcement hardware	Constructed to withstand shock and resist break-age due to drop impact	Double ganged versions available giving 120,160,180, 200,240,280 contacts
IT1 Datasheet	DF16 Datasheet	Nylon Catalogue	DF17 Datasheet	Ribbon Cable or Fine Pitch Catalogue

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	Serie	DF 15	FX6	FX 5	DF 9
Typical Product					
Contact Pitch (mm)		0.65	0.8	1.0	1.0
Stacking Height		4 - 8	5 - 9	---	4.3
Application		Parallel	Parallel	Right Angle	Parallel
PCB Mounting		SMT	SMT	SMT / Dip	SMT
No. of Contacts		20,30,40,50, 60	20,40,50, 60,80,100	20, 40, 42, 56, 68 or 80	9, 11, 13, 15, 17, 19, 21, 23, 25, 31, 41, 51
Rated Voltage		AC 50	AC 100	AC 100	AC 150
Current Rating (Amps)		0,3	0.5	0.5	0.5
Notes		Optional guide posts and reinforcement hardware	Optional guide posts	Various numbers of contacts, two types of header-side heights, coupling guidance	Wire to PCB version available in 31 & 41 positions VESA (FPDI-1) standard
Further Information Source		Nylon Catalogue	Ribbon Cable or Fine Pitch Catalogue	FX5 Datasheet	Nylon Catalogue

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DF 26	FX 2	FX 4	DF 3	DF 11
new! 1.1	1.27	1.27	2.0	2.0
1.2 / 1.7	12 - 16 (*12.1 - 14.2)	T/H 5 - 11 SMT 7 - 11	6.6, 7.5	7.55 - 8.45
one piece - compression type	Parallel, Right Angle, Horizontal	Parallel	Parallel, Right Angle	Parallel, Right Angle
SMT	Through Hole/SMT	Through Hole /SMT	Through Hole /SMT (Header only)	Through Hole /SMT
1.2 mm height - 9, 16 pins 1.7 mm - 9 pins	20, 32, 40, 52, 60, 68, 80, 100, 120	20, 32, 40, 52, 60, 68, 80	2 - 15	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 40
AC 50	AC 125	AC 125	AC 250	AC 250
0.5	0.5	0.5	3	2
Low profile, miniature, one-piece connector	(*SMT version) Wire to board options available	Optional PCB retention hardware	Wire to PCB options available	Wire to PCB options available
DF26 Datasheet	Ribbon Cable or Fine Pitch Catalogue	Ribbon Cable or Fine Pitch Catalogue	Nylon Catalogue	Nylon Catalogue

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Serie

A 3

**Typical
Product**



Contact Pitch (mm)	2.0			
Stacking Height	5.1, 6			
Application	Parallel, Right Angle			
PCB Mounting	Through Hole /SMT			
No. of Contacts	4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 32, 44, 50			
Rated Voltage	AC 200			
Current Rating (Amps)	1			
Notes	Wire to PCB options available			
Further Information Source	Ribbon Cable Catalogue			

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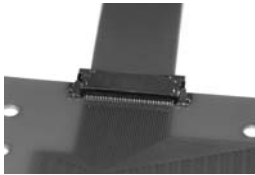
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Serie	DF 25	DF 21	DF 19	DF 20
Typical Product				
Contact Pitch (mm)	new! 0.5	new! 0.6	1.0	1.0
Termination Wire Gauge	FPC, coaxial thin cable	-	Crimp 28-32 AWG, FPC, Coax	Crimp 28 - 30 AWG
Straight Header	-	yes	-	SMT
Right Angled Header	Yes	-	SMT	-
No. of Contacts	20, 30, 36	20, 30, 40	8,14,20,30	10, 20, 30, 40, 50
Rated Voltage	AC 50	AC 50	AC 100	AC 100
Current Rating (Amps)	0.5	Wire size: AWG #40:0.3A, AWG#36:0.5A	0.3 - 1 dependant on wire gauge	0.5 - 1 dependant on wire gauge
Notes	high frequency/high speed transmission, low profile, common use of header, etc	High Interconnection reliability shielded design, reliable mating/unmating, etc	Single row Can be terminated with FPC or co-axial cable	Double row
Further Information Source	Drawing	DF21 Datasheet	DF19 Datasheet	DF20 Datasheet

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Serie	DF 9 M	DF 14	DF 13	DF 13
Typical Product				
Contact Pitch (mm)	1.0	1.25	1.25	1.25 x 1.25
Termination Wire Gauge	IDC	Crimp 26-32 AWG	Crimp 26-30 AWG	Crimp 26-30 AWG
Straight Header	SMT	-	Through Hole /SMT	SMT
Right Angled Header	-	SMT	Through Hole /SMT	-
No. of Contacts	31, 41	2-10, 15, 20, 25, 30	2-15	10, 20, 30, 40
Rated Voltage	AC 150	AC 150	AC 150	AC 150
Current Rating (Amps)	0.5	1	1	1
Notes	VESA flat panel display interface FPDI-1	Single row	Single row	Double row
Further Information Source	Drawing	Nylon Catalogue	Nylon Catalogue	Nylon Catalogue

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FX 2	DF 4	DF 11	DF 3	A3/B/C, A4B
1.27	2	2 x 2	2	2
IDC 28 AWG	IDC/Crimp 24-28 AWG	IDC/Crimp 22-30 AWG Through Hole	IDC/Crimp 22-28 AWG	Crimp 26-36 AWG
Through Hole / SMT	Single & Double Row	Through Hole / SMT	Through Hole /SMT	Through Hole /SMT
Through Hole / SMT	Single & Double Row	Through Hole	Through Hole /SMT	Through Hole
20, 32, 40, 52, 60, 68, 80, 100	2-15 (single row) 4-32 (Double row)	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32	2-15	2-20, 24, 28, 44
AC 125	Crimp AC 250 IDC AC 100	Crimp AC 250 IDC AC 100	Crimp AC 250 IDC AC 100	AC 200
0.5	1 - 3 dependant on wire gauge	0.5 - 2 dependant on wire gauge	1 - 3 dependant on wire gauge	1
PCB-PCB options also available	Solder transition	UL/CSA approved UL E52653 CSA LR95109 Extension plug available	UL/CSA approved UL E52653 CSA LR95109 Extension plug available	Single & double row options PCB/PCB options available
Ribbon Cable or Fine Pitch Catalogue	Nylon Catalogue	Nylon Catalogue	Nylon Catalogue	Ribbon Cable Catalogue

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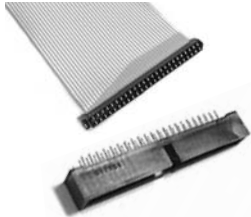
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Serie	A3E	DF1B Single Row	DF1B Double Row	DF1E
Typical Product				
Contact Pitch (mm)	2 x 2	2.5	2.5 x 2.5	2.5
Termination Wire Gauge	IDC 28 AWG	Crimp 20-30 AWG	Crimp 20-30 AWG	Crimp 20-30 AWG
Straight Header	Through Hole	Through Hole	Through Hole	Through Hole
Right Angled Header	-	Through Hole	Through Hole	Through Hole
No. of Contacts	44,50	2-16, 18, 20	4-30, 34, 40	2-15
Rated Voltage	AC 125	AC 250	AC 250	AC 250
Current Rating (Amps)	0.5	0.5 - 3 dependant on wire gauge	0.5 - 3 dependant on wire gauge	0.5 - 3 dependant on wire gauge
Notes	For 2.5 inch disk drives	Cable extension plug available	Cable extension plug available	Versions suitable for potting
Further Information Source	Ribbon Cable Catalogue	Nylon Catalogue	Nylon Catalogue	DF1E Datasheet

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Wire to PCB



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DF1	DF2	PX	MDF6	DF6
2.5	2.5	3.4	3.5 x 5	3.96
IDC/Crimp 24-28 AWG	Crimp 24-28 AWG	Crimp 16-18 AWG	Crimp 16-22 AWG	Crimp 18-22 AWG
Through Hole	-	-	Through Hole	Solder Transition
Through Hole	-	Through Hole	Through Hole	-
2-16, 18, 20	2-16, 18, 20	8, 12	4, 6, 8, 10, 12, 14, 16, 18, 20	1, 2, 3, 4, 5, 6, 7, 8, 10
AC 250	AC 250	AC 600	AC 300	AC 300
1 - 3 dependant on wire gauge	1 - 3 dependant on wire gauge	10	4 - 7 dependant on wire gauge	3 - 5 dependant on wire gauge
Suitable for daisy chaining	Solder transition connector UL/CSA approved UL E52653 CSA LR95109	-	Right angle version only in 4, 6, 8 & 10 way Approved UL E52653 CSA LR95109	-
Nylon Catalogue	Nylon Catalogue	PX Datasheet	Nylon Catalogue	Nylon Catalogue

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Serie	DF7	DF5	DF22	MDF12/27
Typical Product				
Contact Pitch (mm)	3.96/7.92	5.00	7.92	Discrete Wire
Termination Wire Gauge	Crimp 16-22 AWG	Crimp 18-22 AWG	Crimp 12-16 AWG	Crimp 14-22 AWG
Straight Header	Through Hole	Through Hole	Through Hole	Solder Transition MDF12
Right Angled Header	Through Hole	-	Through Hole	Solder Transition MDF27
No. of Contacts	2, 3, 4, 5, 6, 7, 8, 9, 10	2, 3, 4, 5, 6, 7, 8, 9, 10	2, 3, 4, 5	Discrete wires
Rated Voltage	AC 630	AC 500	AC/DC 1000	AC 300
Current Rating (Amps)	4 - 10 dependant on wire gauge & pitch	4 - 8 dependant on wire gauge	13 - 20 or more dependant on wire gauge	5 - 15 dependant on wire gauge
Notes	Approved C-UL E52653 TUV R9750437	Latched socket Double row version in 4, 6, 8 & 10 positions	3 colour coded key options Approved C-UL & TUV	-
Further Information Source	DF7 Datasheet	DF5 Datasheet or Nylon Catalogue	DF22 Datasheet	Nylon Catalogue

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FFC / FPC



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HR5

Serie	FH18	FH16	FH23	FH19
Typical Product				
Pitch	0.3	0.3	<i>new!</i> 0.3	<i>new!</i> 0.5
Cable Type	FPC	FPC	FPC	FFC / FPC
Technology	ZIF	ZIF	ZIF	ZIF
Solder Technology	SMT	SMT	SMT	SMT
No. of Contacts	17, 21, 25, 27, 39, 45, 51	50, 60, 64, 80	17, 27, 31, 33, 39, 61	9, 10, 13, 15, 17, 20, 21, 24, 27, 30, 40, 50
Rated Voltage	AC 30	AC 30	AC 50	AC 50
Current Rating (Amps)	0.15	0.15	DC 0.3	0.5
Notes	1.8mm high	3.0mm high	1.25mm high	0.9 / 1.0mm high
Further Information Source	FH18 Datasheet	FH16 Datasheet	Leaflet	Drawings

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Serie

FH12

**Typical
Product**



Pitch	0.5/1.0			
Cable Type	FPC/FFC			
Technology	SMT			
Solder Technology	-			
No. of Contacts	6-53			
Rated Voltage	AC 50			
Current Rating (Amps)	0.5 for 1 mm pitch 0.4 for 0.5mm pitch			
Notes	2 mm high vertical version available!			
Further Information Source	FH12 Datasheet			

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I.O. Connectors



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HR5[®]

Serie

HR10

HR10A & HR10G

**Typical
Product**



Shell Size	7	10	7	10
Plug Receptacle Jack	Solder Solder/PCB Solder	Solder Solder/PCB Solder	Solder/Crimp Solder/PCB/Crimp Solder/Crimp	Solder/Crimp Solder/PCB/Crimp Solder/Crimp
Contact Plating	Gold	Gold	Gold/Silver	Gold/Silver
Latching	Push-Pull	Push-Pull	Push-Pull	Push-Pull
Accessory	Cap	Cap	Cap	Cap
No. of Contacts	4,6	12	4,5,6	10,12
Shell Construction	Metal	Metal	Metal	Metal
Current Rating (Amps)	2	2	2	2
Applicable Standard	-	-	-	-

Notes

Terminating jig available

Terminating jig available

HR10G is a grounded
receptacle or jack for shielded applications

Further Information
Source

Circular
Catalogue

Circular
Catalogue

Circular
Catalogue

Circular
Catalogue

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HR5®

Serie

HR10A & G

HR10E

HR10B

HR10D

**Typical
Product**



Shell Size	13	10	10	13
Plug Receptacle Jack	Solder/Crimp Solder/PCB/Crimp Crimp	- Solder -	Crimp Crimp -	Crimp Crimp/PCB -
Contact Plating	Gold/Silver	Gold	Gold/Silver	Gold/Silver
Latching	Push-Pull	Push-Pull	Push-Pull	Push-Pull
Accessory	Cap	Cap	Cap	-
No. of Contacts	20	12	10 Signal 1 Co-axial	20
Shell Construction	Metal	Metal	Metal	Metal
Current Rating (Amps)	2	2	2	2
Applicable Standard	-	-	-	-
Notes	HR10G is a grounded receptacle or jack for shielded applications	Fitted with integrated capacitor	50Ω centre co-axial contact	
Further Information Source	Circular Catalogue	Circular Catalogue	Circular Catalogue	Circular Catalogue

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HR5

HR10A-T	HR25		RP13A	RP17	HR30
					
7,10,13	7	9	12	13	6
Crimp/Solder Crimp/Solder/PCB Solder	Crimp/Solder Crimp/Solder/PCB Solder		Crimp Crimp/PCB Crimp	Crimp Crimp/PCB Crimp	Solder Solder Solder
Gold/Silver	Gold		Silver/Gold	Silver	Gold
Screw	Screw		Push-Pull	Push-Pull	Push-Pull
-	Push-Pull		-	ESD versions	-
6, 12, 20	4, 6, 8	12, 16, 20	13, 15, 20	12	3, 6, 10,12
Metal	Metal		Plastic	Plastic	Plastic
2	1		2	2 - 5	5A for 3 / 2A for others
-	-		-	-	-
Not intermateable with HR10A push-pull types Waterproof options available	Waterproof versions available		Black shell	Black shell	Waterproof to IP67 Additional types under development
Circular Catalogue	Circular Catalogue		Circular Catalogue	Circular Catalogue	HR30 Datasheet

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Serie	RP34L	RP34	MQ172	
Typical Product				
Shell Size	5	8 Square	4.4 x 2.5 / 5 x 2.9	
Plug Receptacle Jack	Crimp Through Hole	Crimp Through Hole	Solder SMT -	
Contact Plating	Palladium	Silver	Gold	
Latching	Detent	Detent	Detent	
Accessory	-	-	-	
No. of Contacts	2,3	3,4	3,4	
Shell Construction	Plastic	Plastic	Plastic & Metal Shield	
Current Rating (Amps)	5	3	3	
Applicable Standard	-	-	-	
Notes	3 pin straight & right angle plug 2 pin straight plug is overmoulded	Straight & right angle plugs Black snap together shell	Receptacles available in tape & reel packaging 4 pos Type USB 1 compliant	
Further Information Source	RP34L Datasheet	Circular Catalogue	MQ172 Datasheet	

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Serie	DX	DXM	3100	3200
Typical Product				
Type	1.27mm pitch High Density Packaging	1.27mm pitch High Density Packaging	1.27mm pitch	0.8mm pitch
Plug Socket	Discrete wire IDC Through Hole/IDC/SMT	Discrete wire IDC/Solder Tag Through Hole /IDC/SMT	Discrete wire IDC Through Hole	Solder SMT
Contact Plating	Gold	Gold	Gold	Gold
Options	Plastic or metal hoods Dust Cap (28,50 contacts) Co-axial options	Plastic or metal hoods. Ferrite (100 position only) Active terminator	Right angle plug 6 & 16 position	Top latch
No. of Contacts	20, 28, 36, 50, 68, 80, 100, 132	14, 20, 26, 36, 50, 68, 80, 100, 110	6, 8, 12, 14, 16	8,10
Current Rating (Amps)	0.5	0.5	0.5	0.5
Applicable Standard	-	-	-	-
Notes	Shielded connector	Shielded connector	Receptacle is 7.3mm high Shielded connector	Receptacle is 2.9mm high Shielded Connector
Further Information Source	Fine Pitch & Rectangular Catalogue	Fine Pitch & Rectangular Catalogue	Fine Pitch & Rectangular Catalogue	Fine Pitch & Rectangular Catalogue

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Serie	DX	DXM	3100	3200
Typical Product				
Type	1.27mm pitch High Density Packaging	1.27mm pitch High Density Packaging	1.27mm pitch	0.8mm pitch
Plug Socket	Discrete wire IDC Through Hole/IDC/SMT	Discrete wire IDC/Solder Tag Through Hole /IDC/SMT	Discrete wire IDC Through Hole	Solder SMT
Contact Plating	Gold	Gold	Gold	Gold
Options	Plastic or metal hoods Dust Cap (28,50 contacts) Co-axial options	Plastic or metal hoods. Ferrite (100 position only) Active terminator	Right angle plug 6 & 16 position	Top latch
No. of Contacts	20, 28, 36, 50, 68, 80, 100, 132	14, 20, 26, 36, 50, 68, 80, 100, 110	6, 8, 12, 14, 16	8,10
Current Rating (Amps)	0.5	0.5	0.5	0.5
Applicable Standard	-	-	-	-
Notes	Shielded connector	Shielded connector	Receptacle is 7.3mm high Shielded connector	Receptacle is 2.9mm high Shielded Connector
Further Information Source	Fine Pitch & Rectangular Catalogue	Fine Pitch & Rectangular Catalogue	Fine Pitch & Rectangular Catalogue	Fine Pitch & Rectangular Catalogue

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UX/Mini-USB	EX-T			
				
new! Mini-USB B-Type	new! 0.5 mm pitch			
Assembly SMT	Solder Tag SMT			
Contact area: gold plating Lead area: tin alloy plating	Gold			
-	Cover straight right angled			
5pins	59 signal 6 power or 71 signal			
1A	Signal contact: 1A Power contact: 2A			
USB 2.0 Spec.	-			
-	-			
Presentation Material	EXT-Leaflet			

Stig Wahlström AB I.O. Connectors TM Modular

HR5[®]

Serie	TM18R	TM21R	TM22R	TM21R
Typical Product				
Type	SMT Jack	Cat 6 shielded Jack	Unshielded Cat 6 Jack	Cat 6 shielded multipoint Jack
No. of Contacts	2, 6, 8	8		8x4, 8x8, 8x12
Options	Low Profile	with and without Light Pipes	with and without Light Pipes	with and without Light Pipes
Notes	Mounted in PCB cut out	Right angle and vertical through hole PCB mount	Right angle and vertical through hole PCB mount	Through hole PCB mount Use with SMT LED's
Further Information Source	TM18 Datasheet	TM21 Datasheet	TM22 Datasheet	TM21 Datasheet

Stig Wahlström AB I.O. Connectors TM Modular

TM11P	TM21P	TM11BP Cover	TM11 Cover	TM21 Cover
				
Shielded Cat 5E Plug	Shielded Cat 6 Plug	Cover for 6.6 mm cable	Cover for 5.9 mm cable	Cover TM11/21 for 6.6 mm cable
8	8	-	-	-
Optional colour hoods: beige, grey, light grey, orange, red, green, blue, yellow, black	Optional colour hoods: beige, grey, light grey, orange, red, green, blue, yellow, black	Optional colour hoods: beige, grey, light grey, orange, red, green, blue, yellow, black	Optional colour hoods: beige, grey, light grey, orange, red, green, blue, yellow, black	Optional colour hoods: beige, grey, light grey, orange, red, green, blue, yellow, black
Fold up hood Suitable for use in Cat 5E systems Right angle hood	Fold up hood with latch protector	-	-	-
TM Modular Catalogue	TM21 Datasheet	For further information please contact us	For further information please contact us	For further information please contact us

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Automotive



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Serie	GT15	GT5	GT / GTA	GT13
Typical Product				
Termination	Crimp	Crimp	Crimp	Crimp
Applicable Cable	Conductor cross sectional area 0.2 - 0.5mm ² Outer Jacket dia. 3.6 - 4.2mm	Conductor sectional area 0.05 to 0.2mm ² Insulation outside dia. 1.5 to 3.5mm Jacket outside dia. 2.6 to 5.0mm GT5W dia. :1.5 to 1.7mm :2.9 to 3.4mm	For use with GT5 assemblies where direct mounting on the PCB is needed	Conductor sectional area 0.08 to 0.2mm ² Insulation outside dia. 1.5 to 2.0mm
Current Rating (Amps)	1	1	1	1
Insulation Resistance	100MW or more at 500V DC	100MW or more at 500V DC	100MW or more at 500V DC	100MW or more at 500V DC
Withstand Voltage	30kV DC for 500 ms	650V AC for 1 minute	650V AC for 1 minute	500V AC for 1 minute
Contact Resistance	0.3W or less at 0.4A DC	30mW or less at 0.1A DC	30mW or less at 0.1A DC	30mW or less at 0.1A DC
Operating Temperature Range	-55oC to +145oC	-30oC to +105oC	-30oC to +105oC	-30oC to +105oC
Further Information Source	Automotive Catalogue	Automotive Catalogue	Automotive Catalogue	Automotive Catalogue

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PO5G	GT17	GT6W Waterproof		
				
Crimp	Crimp	Crimp		
1.5D-HQ Super 1.5DS-GXC-SP	Conductor sectional area 0.08 to 0.5mm ² Jacket outside dia. 0.8 to 1.3mm	Internal conductor cross sectional area 3mm ² Insulation external dia. 4.2 to 4.6mm Jacket outside dia. 5.9 to 6.3mm		
-	3	20		
100MW or more at 500V DC	100MW or more at 500V DC	100MW or more at 500V DC		
650V AC for 1 minute	650V AC for 1 minute	1000V AC for 1 minute		
30mW or less at 1A DC	30mW or less at 1A DC	30mW or less at 1A DC		
-40oC to +105oC	-30oC to +105oC	-30oC to +105oC		
Contact Sales Office	Automotive Catalogue	Automotive Catalogue		

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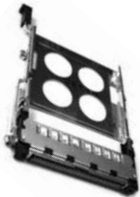
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Serie	IC11S	IC13	IC9	IC1
Typical Product				
Type	Card Bus Single Slot SMT	Card Bus with FPC Connection	Card Bus Sockets for card kits	Card Bus Sockets for card kits
Applicable Standard	PC Card	PC Card	PC Card	JEIDA Ver. 3 & PC Card
Equipment Mounting	✓	-	-	-
Card Mounting	-	✓	✓	✓
Contact Pitch (mm)	1.27	1.27	1.27	1.27
No. of Contacts	68	68	68	40,68
Contact Arrangement	2 rows	2 rows	2 rows	2 rows
Mounting	SMT	SMT	SMT	SMT
Notes	Reverse type available Eject button on left or right Ground clips Standoffs Fold away, pop up or rigid ejector	Eject button on left or right Ground clips Fold away ejector Use in conjunction with FH16	Single side row mounting 0.3 or 0.9mm offset	-
Further Information Source	PC Card Catalogue	PC Card Catalogue	PC Card Catalogue	PC Card Catalogue

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PCMCIA Card Kits	NX1	NX	POD3	MRF01
				
Card Kits	Easy Assembly PC Card Frame Kit	I/O connector for frame kits	Miniature, co-axial push-pull locking	Miniature co-axial push-on
PC Card	PC Card	Suited to JEIDA RP-03 Ver.1.0	-	-
-	-	-	-	-
-	✓	✓	✓	✓
-	-	0.8	Co-axial	-
pls contact our sales office	15, 25, 32	9, 15, 25, 32, 68	-	Co-axial
-	-	1 row	SMT	-
-	-	SMT	50Ω	SMT
with I/O without I/O Extended Back Custom made	Snap together frame kit for use with NX I/O connectors and IC1 or IC9 sockets	Use with NX1 frame kit for type I & II cards	DC-3GHz	50Ω DC-3GHz
Drawing or PC Card Catalogue	Datasheet or PC Card Catalogue	PC Card Catalogue	POD3 Datasheet or PC Card Catalogue	MRF01 Datasheet or PC Card Catalogue

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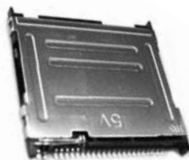
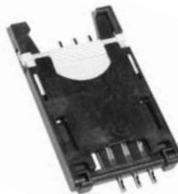
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Serie	MI20/MI21	MCR102	DM1A	SIM Card ID1A
Typical Product				
Type	Compact flash connectors	SSFDC Card Connectors	new! SD Card connectors	SIM Card
Applicable Standard	CFA	Smart Media	SD-IO Card	GSM
Equipment Mounting	✓	✓		✓
Card Mounting	✓	-		-
Contact Pitch (mm)	1.27	2.54	2.5+/-0.1	2.54
No. of Contacts	50	22		6
Contact Arrangement	2 rows	2 rows		2 rows
Mounting	SMT	SMT		SMT
Notes	Eject button on left or right Ground clips Standoffs Reverse type available Accommodates type II cards	3.3V, 5V available Available with card detection switch	Please contact your Sales Office for latest information	Furnished with slide lock
Further Information Source	PC Card Catalogue	PC Card Catalogue	Drawing for reference	Datasheet or PC Card Catalogue

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Serie	Memory Stick CB1	SX6	SX1	PG3
Typical Product				
Type	Sony Memory Stick*	8 Byte SO DIMM to JEDEC MO-190	DIMM	CPU-Socket
No. of Contacts	-	144	72	479 / 478
Contact Pitch (mm)	✓	0.8	1.27	1,27
Mounting	-	SMT	SMT	SMT
Notes	1.50	Height 5.3 mm (SX6) and 4 mm (SX6E)	Moulded latch 3.3V or 5.0V available	Pentium 3m and 4 ZIF
	10			
	1 row	Module entry angle 20o- 30o		
	SMT	Reverse type available (SX6R)		
	Optional left or right ejector mechanism	PCB location post		
	*Memory Stick is a trade- mark for Sony	Suitable for automatic pick and place		
Further Information Source	CB1 Datasheet	Drawing SX6E Datasheet	SX1 Datasheet or SX Catalogue	PGJ-Datasheet

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Fibre Optic



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HR5[®]

Serie

MU-Serie

**MU
for Backplane**

**Typical
Product**



Description

Adapter

Adapter

Adapter

Printed
Board Side
Connector Housing

No. of Contacts

Single

2

8

2,8

Standard

NTT approved options
IEC 61754-6

NTT approved options
IEC 61754-6

NTT approved options
IEC 61754-6

NTT approved options
IEC 61754-6

Notes

Panel attachment by can-
tilever spring

Panel attachment by can-
tilever spring

Panel attachment by can-
tilever spring

Panel attachment by
screw

Panel attachment by
screw

Panel attachment by
screw

-

PCB mount

PCB mount

PCB mount

Further Information
Source

Fibre Optic
Catalogue

Fibre Optic
Catalogue

Fibre Optic
Catalogue

Fibre Optic
Catalogue

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MU
for Backplane

SC-Serie



Back Panel Side
Connector Housing

Adapter

Adapter

Adapter

Adapter

2,8

Single

2

4,5

Single

NTT approved options
IEC 61754-6

NTT approved options

NTT approved options

NTT approved options

NTT approved options

Panel thickness: 2.4,
3.2mm

Diecast
housing

Plastic
housing

Duplex, convential
(LAN)

Duplex, vertical (high
density)

Tool lock release type

Receptacle
SC-ST converter

SC-FC converter, screw

SC-FC converter, SC side
plastic

SC-FC converter, can-
tilver spring

SC-FC / FC-SC converter

Fibre Optic
Catalogue

Fibre Optic
Catalogue

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Catalogue

Fibre Optic Catalogue

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Serie	SC-Serie	MF-Serie	EZ-Serie	
Typical Product				
Description	Attenuators & Terminators for Receptacle or Plug Housing	Split Sleeve	Waterproof Screw or Bayonet Circular Multipole	Interface for SMT Optical Modules
No. of Contacts	3,5,10,15,20,25,30 dB options	Single	2,4,6,8	Single
Standard	NTT approved options	NTT approved options	IP67	For interfacing to modules from OKI, Sumitomo, Fujitsu & Mitsubishi
Notes	SC terminators input power 30mW plug, 10mW receptacle SC Attenuators 10mW & 100mW plug versions	Zirconia or copper alloy	Plug, receptacle, jack and dustcaps	Patent pending
Further Information Source	Fibre Optic Catalogue	Fibre Optic Catalogue	Fibre Optic Catalogue	Fibre Optic Catalogue

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Fibre Optic



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HRS[®]

MD-Serie



Multiple data transmission
connectors

new!

4, 8, 12

Optical multi-fibre
connector using MT ferrule

Original latch structure

User friendly push-pull lock

Compact design

Presentation Material

Co-axial

Stig Wahlström AB



Elektronik

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Serie		H.FL	E.FL	U.FL	W.FL
Typical Product					
Type of Shell		R/angle plug, SMT receptacle	R/angle plug, SMT receptacle R/angle receptacle available	R/angle plug, SMT recep- tacle, SMA conversion adapters, inspection receptacle	new! R/angle plug, SMT receptacle
Applicable Cable		CO-6F, FH-SB (dia 1.48), 0.8DS-PBE (dia 1.47)	RF-MF5010, CO-6F-SB-CX50, F12B0074-B	0.8 & 1.32mm dia	J12B0964, RF-MF5010
Characteristic Impedance		50Ω, 75Ω	50Ω	50Ω	50Ω
Frequency Range		DC~3 GHz, DC~6 GHz	DC ~ 2 GHz	DC ~ 6 GHz	DC ~ 3 GHz
Connection	Centre Contact	Crimp	Solder	Solder	
	Shell	Crimp	Crimp	Crimp	
Standard		Mated height 3mm	Mated height 3mm	Mated height 2 / 2.5mm	Mated height 1,55 mm
Plating	Centre Contact	Gold	Gold	Gold	Gold
	Shell	Silver	Silver	Silver	Silver
Accessories		Adapter	Adapter	Adapter	
Further Information Source		Co-axial Catalogue	E.FL Datasheet or Co-axial Catalogue	U.FL Datasheet	W.FL Datasheet

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Serie

MRF03

**Typical
Product**



Further Co-axial products on request

Contact Pitch (mm)	4.5/6.0			
Termination	Solder			
Wire Gauge	Co-axial			
Straight Header	-			
Right Angled Header	SMT			
No. of Contacts	6			
Rated Voltage	-			
Current Rating (Amps)	-			

Notes

50 & 75Ω

Further Information Source

MRF03
Datasheet

Stig Wahlström AB

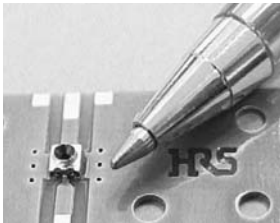
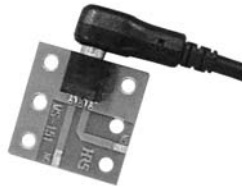
Co-axial Switches



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Serie	MS-147	MS-156	MS-151	
Typical Product				
Frequency Range	DC ~ 6.0 GHz	new! DC ~ 6 GHz	new! DC ~ 3.0 GHz	
Characteristic Impedance	50Ω	50Ω	50Ω	
Maximum Allowable Power	4W	2W	4W	
Notes	SMT 12000 Mating Cycles	SMT 100 Mating Cycles as Check Point	SMT 5000 Mating Cycles	
Further Information Source	MS147 Datasheet	Drawing	Drawing	