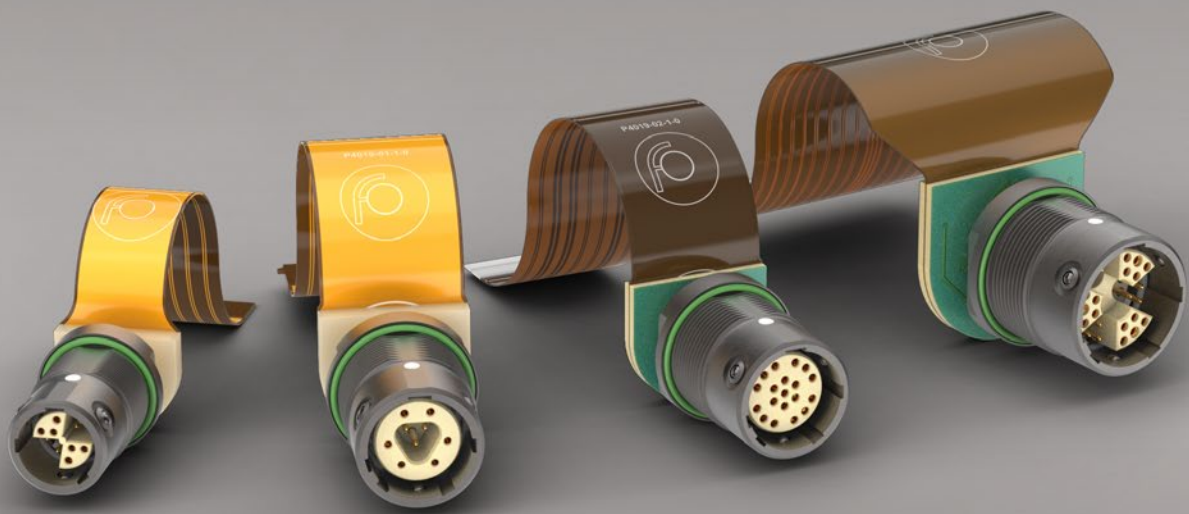


FISCHER **FLEX CIRCUIT** SOLUTIONS

READY FOR INTEGRATION
HIGH-DENSITY
MINIATURIZATION

Differential impedance

Up to 30 contacts



TRY PREASSEMBLED FLEX PCB SOLUTIONS

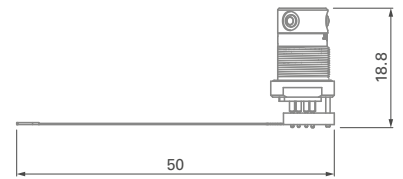
Fischer Connectors' experts have created a range of 4 preassembled prototype with flex PCB, designed to connect USB, Ethernet and standard HD audio/video signals – **ready for integration!**

Please inquire Fischer Connectors technical team for any custom design.



PREASSEMBLED FISCHER MINIMAX FLEX | SIZE 06, 12 contacts

(dimensions in millimeters- images are for reference only)



Designation	MiniMax receptacle	FPC contacts	FPC materials
CA FLEX MRL060210/FH34SRJ-14S (P4019-03-1-0) ¹⁾	MR11WL06 0210 AN1 E1AP 132242	Hirose FH34SRJ-14S-0.5SH	FR4 and Polyimide ENIG Cu (75µm / 35µm)

¹⁾ MiniMax Size 06 12 contacts assembled with prototype flex PCB

ETHERNET pinout		
Signal function	MiniMax contact number	FPC contact number ²⁾
DA+	10	3
DA-	3	2
DB+	4	6
DB-	11	8
DC+	1	9
DC-	6	5
DD+	7	11
DD-	2	12
Shield / Ground	Shell (ground pin)	1; 4; 7; 10; 13
Not connected	5; 8; 9; 12	14

²⁾ Assembled with FPC contacts to mate with Hirose FH34SRJ-14S-0.5SH

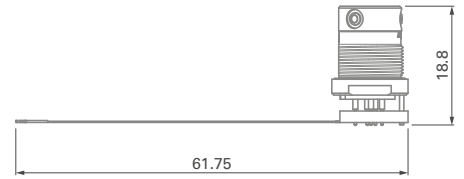
COMPATIBLE PRE-CABLED MINIMAX PLUG



Termination 1	Termination 2	Designation	Part number
Cabled plug MP11	RJ45 plug	CA D 8xLV MP11 0210/RJ45 LSOH BK 2.0m	145697

PREASSEMBLED FISCHER MINIMAX FLEX | SIZE 08, 9 contacts

(dimensions in millimeters- images are for reference only)



Designation	MiniMax receptacle	FPC contacts	FPC materials
CA FLEX MRL080009/FH55-22S (P4019-01-1-0) ¹⁾	MR11WL08 0009 AN1 E1AP 132907	Hirose FH55-22S-0.5SH	FR4 and Polyimide ENIG Cu (75µm / 35µm)

¹⁾ MiniMax Size 08 9 contacts assembled with prototype flex PCB

USB pinout		
Signal function	MiniMax contact number	FPC contact number ²⁾
VBUS	4	6; 7; 8; 9
D-	1	16
D+	3	17
Shield / Ground / Drain	9; 2 and Shell (ground pin)	1; 4; 11; 12; 13; 14; 15
SS RX-	8	20
SS RX+	7	21
SS TX-	6	2
SS TX+	5	3
Not connected	-	5; 10; 18

²⁾ Assembled with FPC contacts to mate with Hirose FH55-22S-0.5SH

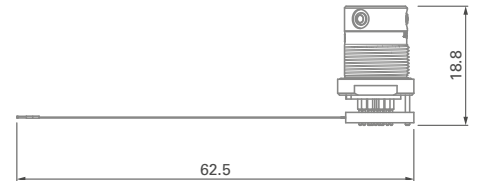
COMPATIBLE PRE-CABLED MINIMAX PLUG



Termination 1	Termination 2	Designation	Part number
Cabled plug MP11	USB 3.2 Type A plug	CA D 9xLV MP11 2007/USB3 MA PVC BK 2.0m	134256

PREASSEMBLED FISCHER MINIMAX FLEX | SIZE 08, 19 contacts

(dimensions in millimeters- images are for reference only)



Designation	MiniMax receptacle	FPC contacts	FPC materials
CA FLEX MRL08H019/FH34SRJ-22S (P4019-02-1-0) ¹⁾	MR11WL08 H019 AN1 E1FP 142295	Hirose FH34SRJ-22S-0.5SH	FR4 and Polyimide ENIG Cu (75µm / 35µm)

¹⁾ MiniMax Size 08 19 contacts assembled with prototype flex PCB

HD audio/video pinout		
Signal function	MiniMax contact number	FPC contact number ²⁾
TMDS data 2+	19	11
TMDS data 2-	87	12
TMDS data 1+	10	14
TMDS data 1-	11	15
TMDS data 0+	13	20
TMDS data 0-	14	21
TMDS data clock+	16	2
TMDS data clock-	17	3
CEC	7	8
Utility	3	17
SCL (DDC clock)	6	6
SDA (DDC data)	5	5
Ground	18; 9; 12; 15; 2 and shell (ground pin)	10; 13; 19; 1; 4; 7; 16; 22
+5 V power	1	9
Hot plug detect	4	18

²⁾ Assembled with FPC contacts to mate with Hirose FH34SRJ-22S-0.5SH

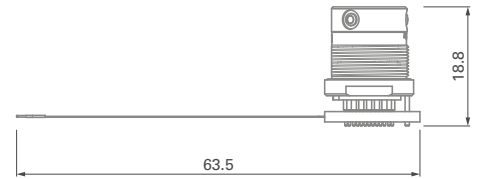
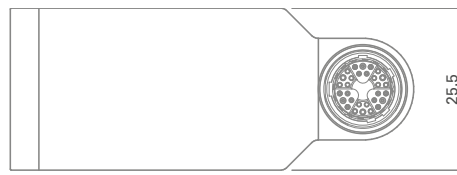
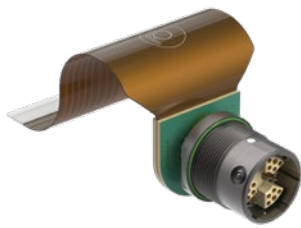
COMPATIBLE PRE-CABLED MINIMAX PLUG



Termination 1	Termination 2	Designation	Part number
Cabled plug MP11	HDMI 2.0 Type A	CA D 19xLV MP08LH019/HDMI-P PVC BK 1.5m	142710

PREASSEMBLED FISCHER MINIMAX FLEX | SIZE 10, 30 contacts

(dimensions in millimeters- images are for reference only)



Designation	MiniMax receptacle	FPC contacts	FPC materials
CA FLEX MRL100624/FH34SRJ-50S (P4019-04-1-0) ¹⁾	MR11WL10 0624 AN1 E1AP 138524	Hirose FH34SRJ-50S-0.5SH	FR4 and Polyimide ENIG Cu (75µm / 35µm)

¹⁾ MiniMax Size 08 19 contacts assembled with prototype flex PCB

Power and data pinout						
Contact/Signal function	MiniMax contact number	FPC contact number ²⁾	Contact/Signal function	MiniMax contact number	FPC contact number ²⁾	
Shield	Body shell / ground pin	1; 4; 6; 9; 11; 14; 17; 20; 23; 28; 31; 34; 37; 40; 42; 45	TP BK1-	Tracks with 100 Ohms impedance	14	26; 27
			TP BK1+		17	41
			TP BK2-		20	46
			TP BK2+		23	5
PWR 1 (up to 1A with 2x 0.5A)	14	26; 27	TP BK3-		26	10
PWR 2 (up to 0.5A)	17	41	TP BK3+		29	24; 25
PWR 3 (up to 0.5A)	20	46	TP BK4-		1	29
PWR 4 (up to 0.5A)	23	5	TP BK4+		2	30
PWR 5 (up to 0.5A)	26	10	TP WT1-		5	43
PWR 6 (up to 1A with 2x 0.5A)	29	24; 25	TP WT1+		6	44
TP1+	3	35	TP WT2-		7	2
TP1-	4	36	TP WT2+		8	3
TP2+	9	12	TP WT3-		11	18
TP2-	10	13	TP WT3+		12	19
TP3+	18	38	TP WT4-	30	21	
TP3-	19	39	TP WT4+	13	22	
TP4+	27	15				
TP4-	28	16				

²⁾ Assembled with FPC contacts to mate with Hirose FH34SRJ-50S-0.5SH.

COMPATIBLE PRE-CABLED MINIMAX PLUG



Termination 1	Termination 2	Designation	Part number
Cabled plug MP11	Open end	CA S 30xLV MP10L0624AN1/OE PUR BK 1.0m	140919

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