

MXP50 – technical data

Electrical data (typical)	Testing condition	Performance
Impedance		50 Ω
Interface frequency max.		50 GHz
Return loss	gated measurement: cable connector/ PCB transition PCB: Rogers RO3003 cable: Multiflex 53-02	≥ 20 dB up to 22.5 GHz ≥ 15 dB up to 50 GHz
Insertion loss		according Multiflex 53-02
Phase match		+/- 2 ps

Mechanical data (typical)	Testing condition	Requirements
Mating force (per single channel)		max. 3.4 N (typical 1.1 N)
Demating force (per single channel)		max. 3.4 N (typical 1.1 N)
Number of matings	MIL-PRF-39012, paragraph 4.7.12	≥ 500
Pitch centre-to-centre		4 mm (0.157 in.)

Environmental data (typical)	Testing condition	Requirements
Temperature range		-55 °C ... 85 °C / -67 °F ... 185 °F
Thermal aging (mated condition)	IEC 60068-2-2, test B	120 °C / 260 h
Change of temperature	IEC 60068-2-14, test na	assembly: -55°C ... 85°C / -67°F ... 185°F PCB: -55°C ... 85°C / -67°F ... 185°F
Vibration	IEC 60068-2-6	on request
Mechanical shock (transport)	MIL-STD-202, method 213, condition I	100 g / 6 ms
Damp heat steady state	IEC 60068-2-78, test ca	40 °C (104 °F) / humidity 93 % / 96 h
2011/65/EU (RoHS)		compliant
2006/1907/EC (REACH)		compliant

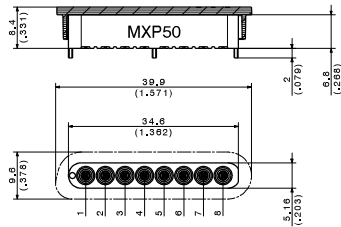
Material data cable connector	Material	Coating
Center contact	copper beryllium	SUCOPRO® gold plating
Outer contact	brass	SUCOPRO® gold plating
Body	aluminium	gold anodised
Insulator	PEEK	n/a

Material data PCB connector	Material	Coating
Center contact	copper beryllium	SUCOPRO® gold plating
Outer contact	BZ4	SUCOPRO® gold plating
Body	brass	SUCOPRO® gold plating
Insulator	PEEK	n/a

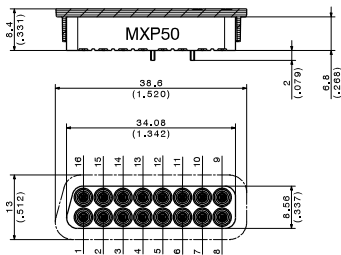
Performance values are typical for the connector interface. Individual component or connector performance may vary depending on the connector design, attachment (e.g. cable, PCB) or application. For detailed specifications please refer to the specific data sheets on our website www.hubersuhner.com.

MXP50 – PCB connectors

- Pitch 4 mm (0.16")
- Via-in-pad capable
- 0.7 mm (0.028") pin size allows easy matching to smallest trace width
- SMD technology – ground pins for better mechanical stability of solder joint

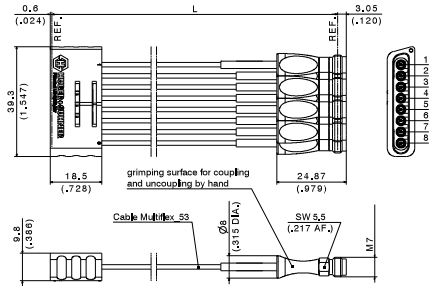


Type 1×8 ganged	Item no.	Packaging	Notes
1×8A_81_MXP-S50-0-3/111_NE	85022694	tape	symmetric design (non keyed)

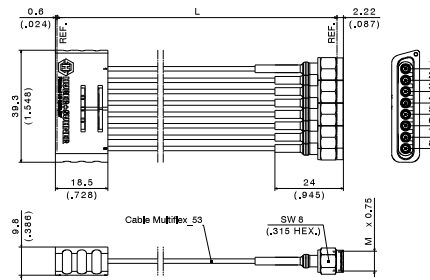


Type 2×8 ganged	Item no.	Packaging	Notes
2×8A_81_MXP-S50-0-4/111_NE	85023106	tape	asymmetric design (keyed) optimised grounding pin layout for differential pair routing

MXP50 - breakout to PC 2.4

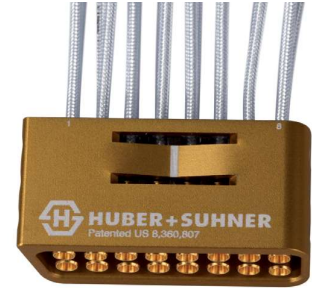
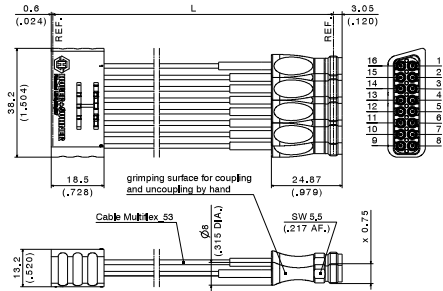


Type 1×8 ganged	Item no.	Length	Notes
MF53/1×8A_21MXP/21PC24_erg/152	85024118	152 mm (6")	single channels numbered with ergo grip on PC 2.4 side
MF53/1×8A_21MXP/21PC24_erg/229	85024116	229 mm (9")	
MF53/1×8A_21MXP/21PC24_erg/305	85024113	305 mm (12")	

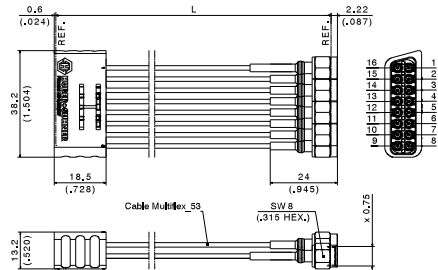


Type 1×8 ganged	Item no.	Length	Notes
MF53/1×8A_21MXP/11PC24/152	85025933	152 mm (6")	single channels numbered
MF53/1×8A_21MXP/11PC24/229	85025934	229 mm (9")	
MF53/1×8A_21MXP/11PC24/305	85025935	305 mm (12")	

MXP50 - breakout to PC 2.4

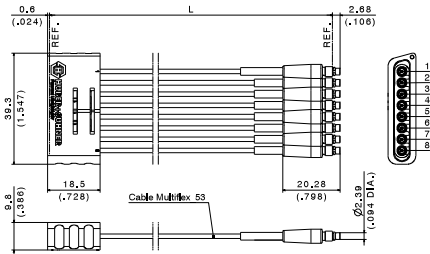


Type 2x8 ganged	Item no.	Length	Notes
MF53/2x8A_21MXP/21PC24_erg/152	85023135	152 mm (6")	single channels numbered with ergo grip on PC 2.4 side
MF53/2x8A_21MXP/21PC24_erg/229	85023167	229 mm (9")	
MF53/2x8A_21MXP/21PC24_erg/305	85023168	305 mm (12")	

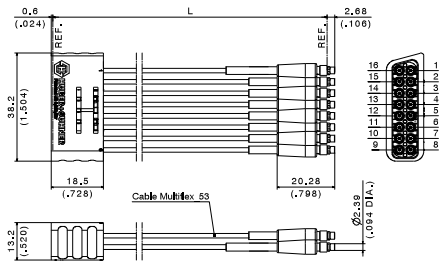


Type 2x8 ganged	Item no.	Length	Notes
MF53/2x8A_21MXP/11PC24/152	85025930	152 mm (6")	single channels numbered
MF53/2x8A_21MXP/11PC24/229	85025932	229 mm (9")	
MF53/2x8A_21MXP/11PC24/305	85025931	305 mm (12")	

MXP50 - breakout to MMPX

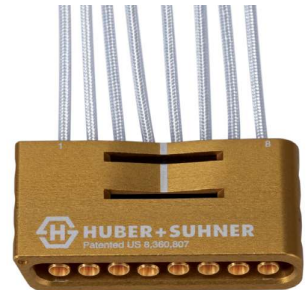
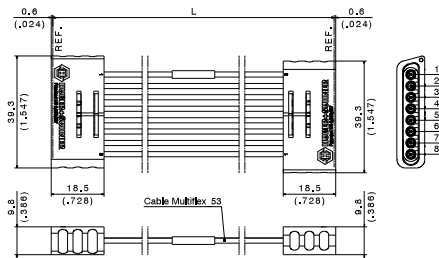


Type 1×8 ganged	Item no.	Length	Notes
MF53/1×8A_21MXP/11MMPX/152	85021537	152 mm (6")	single channels numbered
MF53/1×8A_21MXP/11MMPX/229	85018173	229 mm (9")	
MF53/1×8A_21MXP/11MMPX/305	85025640	305 mm (12")	
MF53/1×8A_21MXP/11MMPX/610	85025641	610 mm (24")	

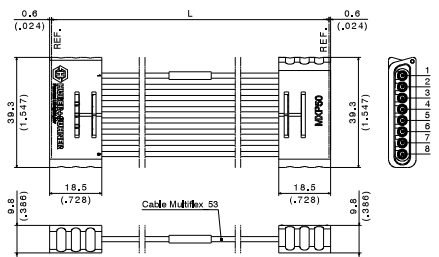


Type 2×8 ganged	Item no.	Length	Notes
MF53/2×8A_21MXP/11MMPX/152	85025642	152 mm (6")	single channels numbered
MF53/2×8A_21MXP/11MMPX/229	85024572	229 mm (9")	
MF53/2×8A_21MXP/11MMPX/305	85025643	305 mm (12")	
MF53/2×8A_21MXP/11MMPX/610	85006750	610 mm (24")	

MXP50 - jumper

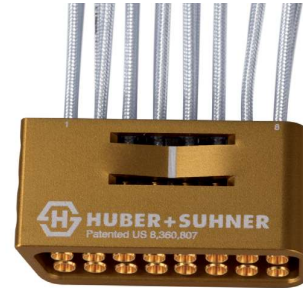
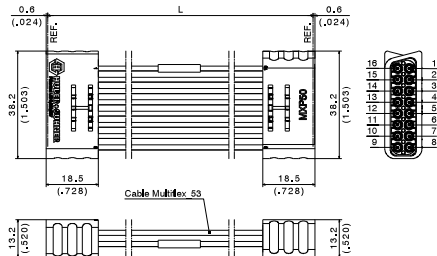


Type 1×8 ganged	Item no.	Length	Notes
MF53/1×8A_21MXP/21MXP/152	84129711	152 mm (6")	pin map: 1 to 8
MF53/1×8A_21MXP/21MXP/229	85009276	229 mm (9")	
MF53/1×8A_21MXP/21MXP/305	84099960	305 mm (12")	
MF53/1×8A_21MXP/21MXP/610	84100060	610 mm (24")	

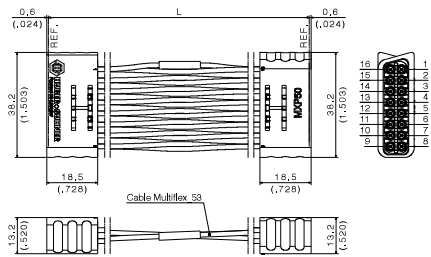


Type 1×8 ganged	Item no.	Length	Notes
MF53/1×8A_21MXP/21MXP/152_1	84129722	152 mm (6")	pin map: 1 to 1
MF53/1×8A_21MXP/21MXP/229_1	85009284	229 mm (9")	
MF53/1×8A_21MXP/21MXP/305_1	84099634	305 mm (12")	
MF53/1×8A_21MXP/21MXP/610_1	84099914	610 mm (24")	

MXP50 - jumper



Type 2×8 ganged	Item no.	Length	Notes
MF53/2×8A_21MXP/21MXP/152	85009288	152 mm (6")	pin map: 1 to 16
MF53/2×8A_21MXP/21MXP/229	85009287	229 mm (9")	
MF53/2×8A_21MXP/21MXP/305	84099955	305 mm (12")	
MF53/2×8A_21MXP/21MXP/457	84131766	457 mm (18")	
MF53/2×8A_21MXP/21MXP/610	84099957	610 mm (24")	

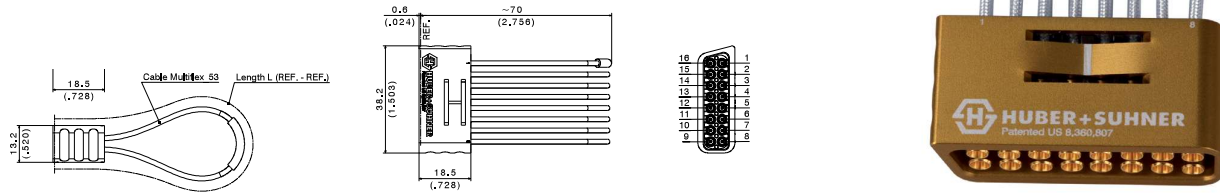


Type 2×8 ganged	Item no.	Length	Notes
MF53/2×8A_21MXP/21MXP/152_1	84116942	152 mm (6")	pin map: 1 to 1
MF53/2×8A_21MXP/21MXP/229_1	85009289	229 mm (9")	
MF53/2×8A_21MXP/21MXP/305_1	84099487	305 mm (12")	
MF53/2×8A_21MXP/21MXP/457_1	84150019	457 mm (18")	
MF53/2×8A_21MXP/21MXP/610_1	84099511	610 mm (24")	

MXP50 - loop back

Typical application

Channel bridging



Type 2×8 ganged	Item no.	Length	Notes
MF53/2×8A_21MXP/152	84095097	152 mm (6")	loop back configuration pin map: 1 to 16

MXP - board-to-board adaptor



Type 2×8 ganged	Item no.	Height	Notes
2×8A_31_MXP-50-0-1	85022967	40 mm	limited misalignment tolerance