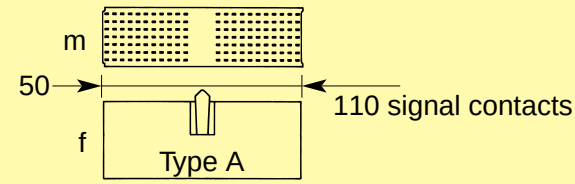
Number of contacts	:	55 – 220 signal (77 – 308 fully shielded); or customised
Contact spacing	:	2.00 mm
Working current	:	1.5 ADC (Signal) max.
Test voltage $U_{r.m.s.}$	:	AC 750 V min.
Contact resistance	:	20 mΩ max.
Insulation resistance	:	10 GΩ min.
Temperature range	:	– 55 °C … + 125 °C
Durability as per IEC 61076-4-101	:	Performance level 2 = 250 mating cycles in total. First 125 mating cycles, then 4 days gas test using 0.5 ppm SO_2 and 0.1 ppm H_2S (at 25 ± 2 °C and 75 ± 3 % humidity). Measurement of contact resistance. The remaining 125 mating cycles are subject to measurement of contact resistance and visual inspection. No abrasion of the contact finish through to the base material. No functional impairment. Performance level 1 = 500 mating cycles in total. First 250 mating cycles, then 10 days gas test using 0.5 ppm SO_2 and 0.1 ppm H_2S (at 25 ± 2 °C and 75 ± 3 % humidity). Measurement of contact resistance. The remaining 250 mating cycles are subject to measurement of contact resistance and visual inspection. No abrasion of the contact finish through to the base material. No functional impairment.
Press-in force*	:	100 N/pin max. Parameters like hole dimension, board thickness and hole surface influence the resulting press-in force. Typical measurements

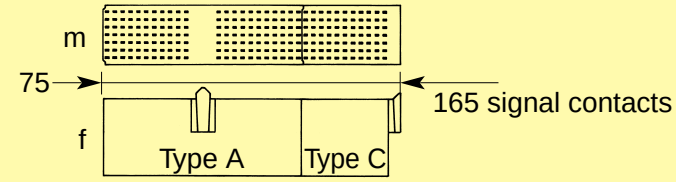
Board finish	Press-in force (N/pin)
tin	40
bare copper	35
gold	33

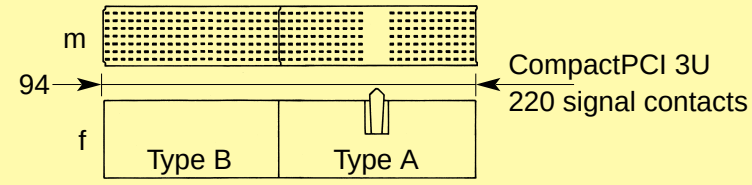
Retention force	:	20 N/pin min.
Mating force	:	0.75 N/pin max.
Withdrawal force	:	0.15 N/pin min.
Materials		
Mouldings	:	Thermoplastic resin, glass-fibre filled, UL 94-V0
Contacts	:	Copper alloy
Contact surface	:	Au/Ni
Packaging	:	Tube (standard) or cardboard box
Approvals		
Underwriters Laboratories Inc.®	:	c UL us with their respective ratings documented in file E 102079
VDE, IECQ, CECC	:	Technology approval certificate, no. 127250 and no. 127244

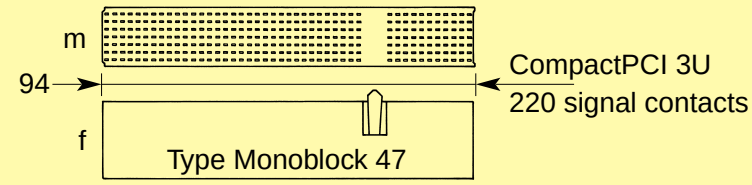
* For further details see chapter 07

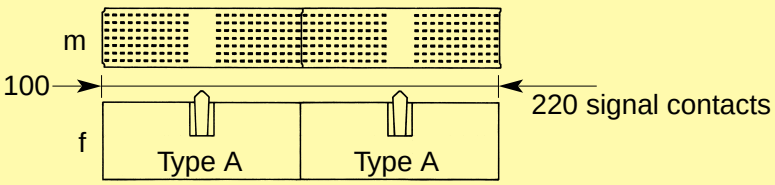
Typical configurations on pcb

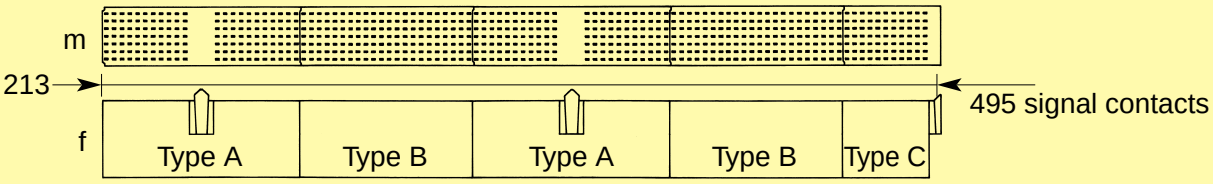


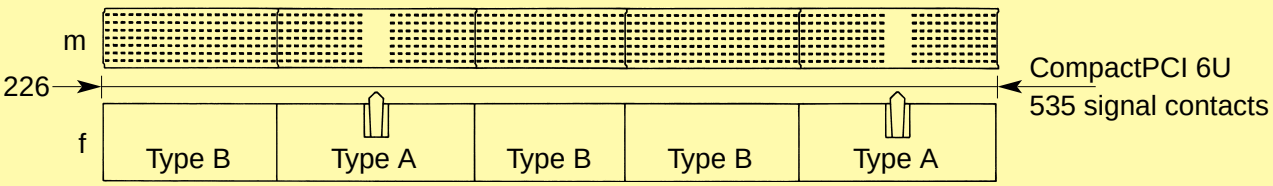


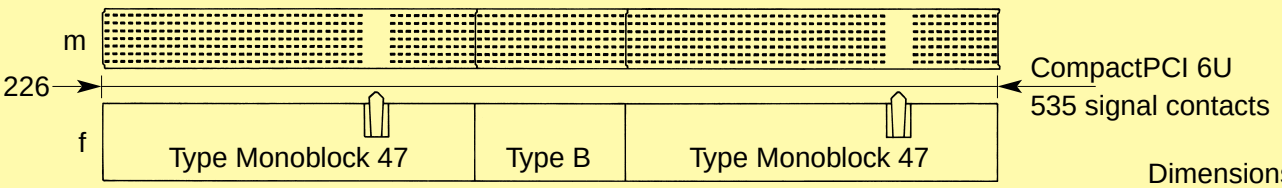












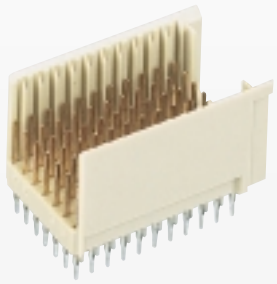
All HARTING har-bus® HM connectors can be assembled end to end in any configuration.

General rules:

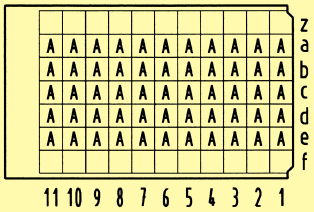
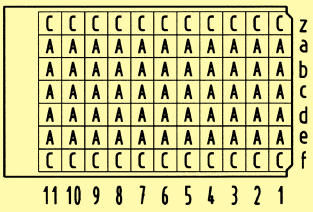
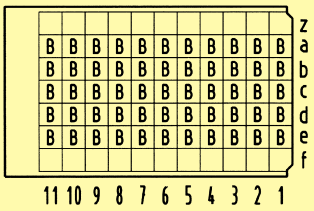
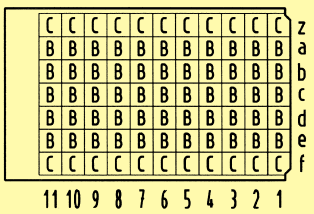
- Type B connectors should always be used in combination with a type A and/or type C connectors that are fitted with alignment features.
- Type C connectors must be assembled at the end of a connector stack, to achieve polarisation and avoid mismating.
- To ensure the correct slot position of connector stacks coding can be added with style A connectors.
- Starting with an A module (50 mm) any module can be added within the above recommendation (see typical examples shown in the diagram).

m = male connector
f = female connector

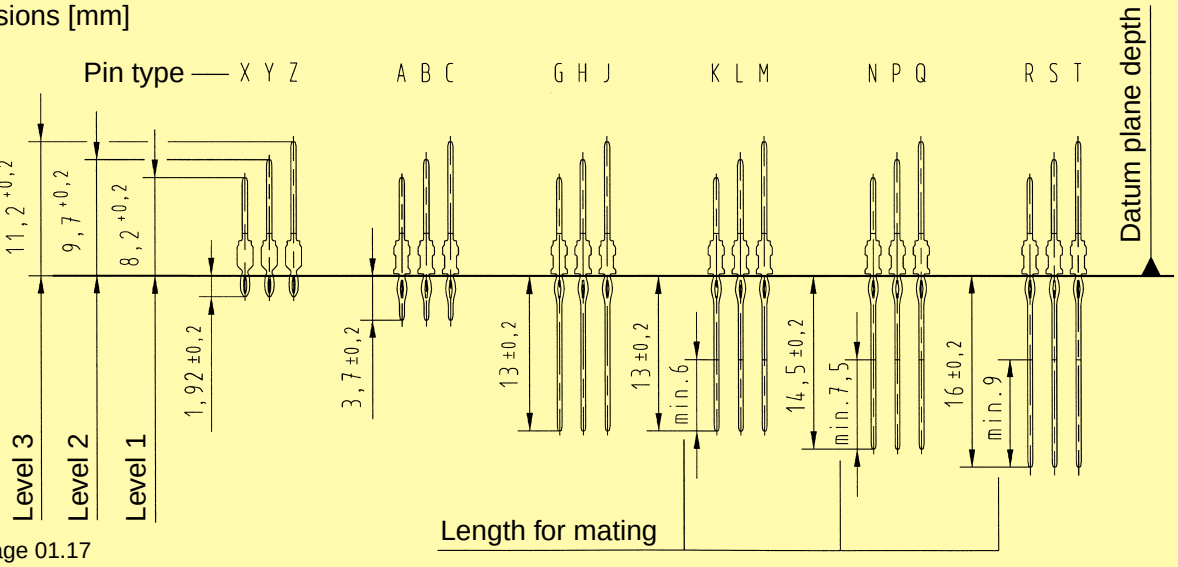
Dimensions [mm]



Male connectors, straight

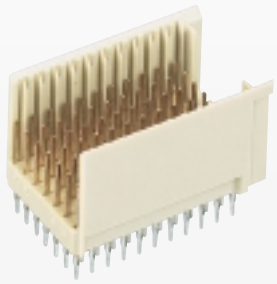
Identification	Number of contacts	Contact length [mm] mating side	Contact length [mm] termination side	Part number	Contact configuration
Type C	55	8.2	3.7	17 03 055 1201 **17 03 055 2201**	
Type C	77	8.2/ 11.2	3.7	17 03 077 1201 **17 03 077 2201**	
Type C	55	9.7	3.7	17 03 055 1202 **17 03 055 2202**	
Type C	77	9.7/ 11.2	3.7	17 03 077 1202 **17 03 077 2202**	

Contact dimensions [mm]

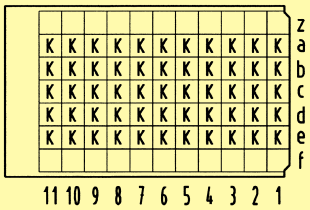
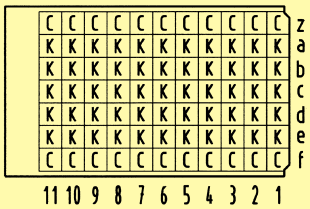


Connector dimensions see page 01.17

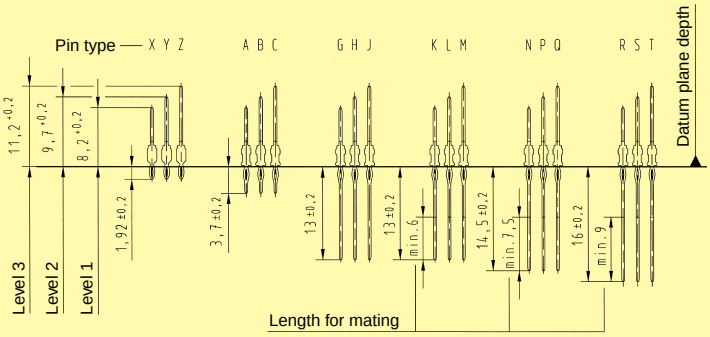
Thin print part numbers: performance level 1
Bold print part numbers: performance level 2
Configurations with contacts with ultrashort press-in zone (pin types X, Y, Z) on request



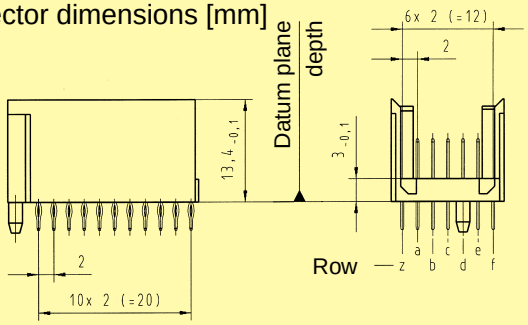
Male connectors, straight

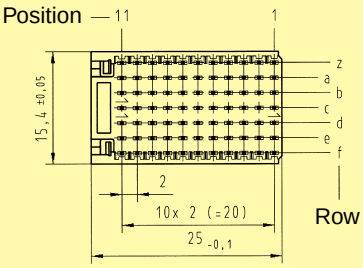
Identification	Number of contacts	Contact length [mm] mating side	Contact length [mm] termination side	Part number	Contact configuration
Type C	55	8.2	13.0	17 03 055 1401 **17 03 055 2401**	
Type C	77	8.2/ 11.2	3.7/ 13.0	17 03 077 1001 **17 03 077 2001**	

Contact dimensions [mm]

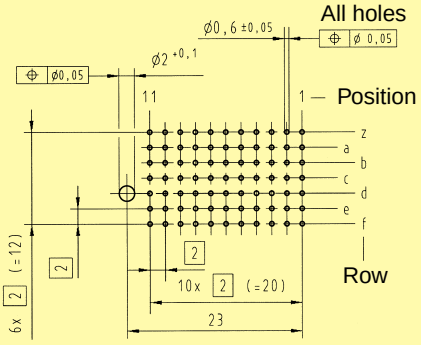


Connector dimensions [mm]





Board drillings



Thin print part numbers: performance level 1
Bold print part numbers: performance level 2
Configurations with contacts with ultrashort press-in zone (pin types X, Y, Z) on request