

General information

In comparison to the standard 5-row *har-bus*[®] HM series, this new 6-row version offers a significantly higher contact density, thus permitting applications where very high contact density is important. Typically, for a signal transmission of 1.5 Gbps it is possible to obtain 7.5 differential pairs per cm of card edge (see figure 1). For a signal transmission of 2.5 Gbps at least 5 differential pairs per cm of card edge can be obtained (see figure 2).

Male and female connectors are both available with 72 or 144 contacts and can be supplied in reel or tube packaging.

A	+	-	G	G	+	-	G	G	+	-	G	G	+	-	G	G	+	-
B	G	G	+	-	G	G	+	-	G	G	+	-	G	G	+	-	G	G
C	+	-	G	G	+	-	G	G	+	-	G	G	+	-	G	G	+	-
D	G	G	+	-	G	G	+	-	G	G	+	-	G	G	+	-	G	G
E	+	-	G	G	+	-	G	G	+	-	G	G	+	-	G	G	+	-
F	G	G	+	-	G	G	+	-	G	G	+	-	G	G	+	-	G	G

Figure 1

A	+	-	G	+	-	G	+	-	G	+	-	G	+	-	G	+	-	G
B	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
C	+	-	G	+	-	G	+	-	G	+	-	G	+	-	G	+	-	G
D	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
E	+	-	G	+	-	G	+	-	G	+	-	G	+	-	G	+	-	G
F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G

Figure 2

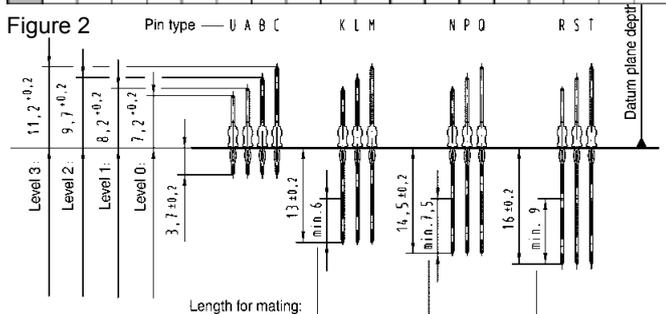
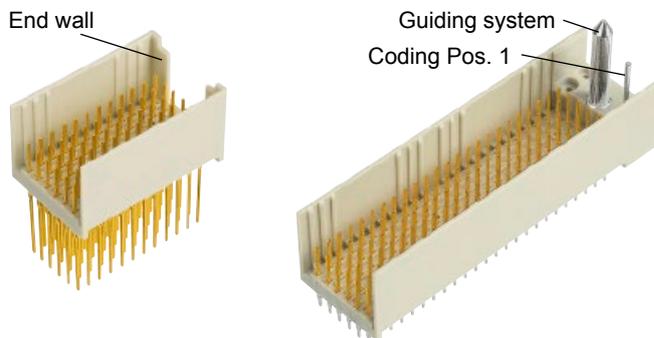


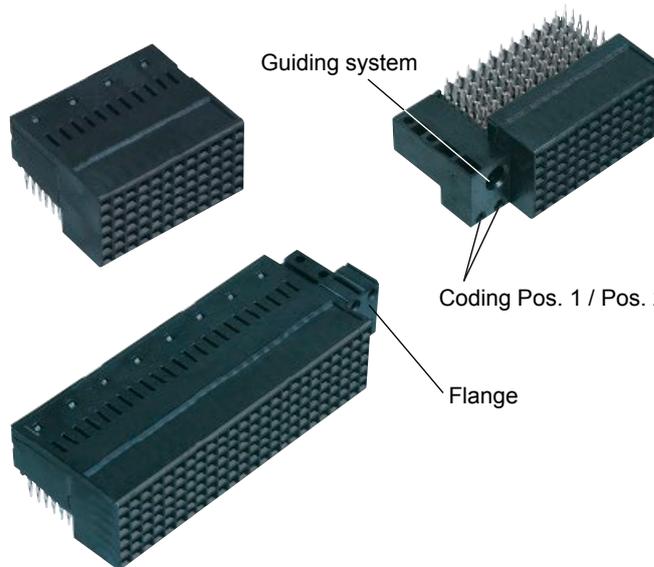
Figure 3

All male connectors can be supplied with end wall, coding pins and guiding system.



Female connectors with press-in termination

The 6-row female connector needs comparable space on the daughter card as the 5-row versions, as it has similar outer dimensions. Compared to the male connectors, coding pins and a guiding system are available upon request too.



Female connectors in SMC (Surface Mount Compatible) technology

Using the reflow soldering process, these 6-row female connectors in SMC technology can be soldered to the PCB at the same time as other SMC components. So the handling cost can be reduced significantly and there is no need for a separate press-in process. These connectors are made from a high temperature plastic material that can withstand up to 260°C (lead free soldering). To hold the connector securely on the PCB before the solder process, kinked contacts are offered as standard on both connector sides. Further SMC information see chapter 01.