

Mating Connectors For On-board Headers

AllMotion® provides insulation-displacement connectors (IDC) of the MTA-100 type for mating with the headers on our circuit boards; these are compatible with a specific wire size, and are distinguished by their color.

If a different outboard wire size is anticipated, another mating connector must be used. Table 1 lists the MTA-100 IDC mating connectors for a range of wire sizes, and identifies the applicator tool required to attach the wires to the MTA-100 connectors.

If crimp-style connectors are preferred, CST-100 II Series connectors may be substituted. Information for these is provided in Table 2, as well as the crimp tool required for attaching the outboard wires to this series of connector.

Insulation-Displacement Connectors

Table 1. TE/AMP MTA-100 Series IDC Connectors (housing with contacts)

Wire size	Housing Color	TE/AMP Part Number *	Hand Applicator Tool
22 AWG	Red	3-643813-n	TE/AMP 58579-1 (Digikey 58579-1-N)
24 AWG	White	3-643814-n	
26 AWG	Blue	3-643815-n	
28 AWG	Green	3-643816-n	

* n = number of positions

Crimp-Style Connectors

Table 2. TTE/AMP CST-100 II Series Crimp-style Connectors (housing and contacts separate)

Item	Wire size	Housing Color	TE/AMP Part Number *	Hand Crimp Tool
Housing	22 ~ 26 AWG	White	1375820-n	TE/AMP 58517-3
Contacts	22 ~ 26 AWG	NA	1445336-1	(Digikey 58517-3-ND)

* n = number of positions