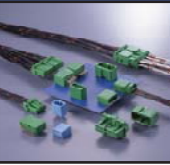
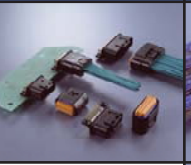
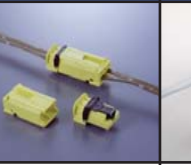
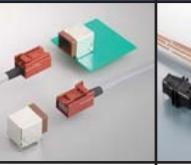




| Series                | IL-AG5                                                                                                                                             | MX19                                                                                                                                                     | MX23A                                                                                                              | MX31                                                                                                                                                                 | MX34                                                                                                                                                              | MX36                                                                                                                                                                   | MX37                                                                                                                                                                       | MX39/MX45                                                                           | MX44                                                                                                                                         |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Photo                 |                                                                   |                                                                         |                                   |                                                                                    |                                                                                |                                                                                     |                                                                                         |  |                                                           |
| Pitch                 | 2.5mm                                                                                                                                              | 2.5mm                                                                                                                                                    | 2.5mm                                                                                                              | Signal: 2.2mm<br>Power: 3.2mm                                                                                                                                        | 2.2mm                                                                                                                                                             | 2.5mm                                                                                                                                                                  | 2.2mm                                                                                                                                                                      | 2.2mm                                                                               | 3.5mm                                                                                                                                        |
| Wire Size             | AWG #22-18<br><br>AV,AVS,AVSS:<br>0.3 to 0.5mm <sup>2</sup><br>AVS, AVSS:<br>0.85mm <sup>2</sup>                                                   | AWG #22-20<br><br>CAVS:<br>0.3 to 0.5mm <sup>2</sup><br>AVSS: 0.5mm <sup>2</sup>                                                                         | AWG #22-16<br><br>AVSS, AVS: 0.5 to<br>1.25mm <sup>2</sup>                                                         | Signal:<br>AWG #22-20<br>Power:<br>AWG #22-16<br><br>Signal:<br>AVS, AVSS, AVX<br>0.3 to 0.5mm <sup>2</sup><br>Power:<br>AVS, AVSS AVX<br>0.3 to 1.25mm <sup>2</sup> | AWG #22-20<br><br>AVSS: 0.3, 0.5mm <sup>2</sup><br>CHFUS: 0.22 to<br>0.35mm <sup>2</sup> , 0.5 to<br>0.75mm <sup>2</sup><br>CAN SD: 0.35mm <sup>2</sup>           | AWG #20<br><br>AVSS 0.5, AVSS<br>0.5F, AVSSX 0.5f,<br>TVSSX 0.5f                                                                                                       | AWG #20<br><br>AVSS 0.5, AVSS<br>0.5F, AVSSX 0.5f,<br>TVSSX 0.5f                                                                                                           | AWG #28<br>Twin Ax                                                                  | AWG #22-20<br><br>AVSS 0.3 to<br>0.5mm <sup>2</sup>                                                                                          |
| Pin Count             | 1 row: 4,5,6,<br>7,10<br>2 rows: 14,16,<br>18,22,30                                                                                                | 2, 4                                                                                                                                                     | 12, 18, 26, 34,<br>36,40                                                                                           | Pin:<br>70,98,104,135<br>Socket:<br>31,34,35                                                                                                                         | 3,5,7,12,16,20,<br>24,28,32,36,40                                                                                                                                 | 2, 4                                                                                                                                                                   | 4                                                                                                                                                                          | 4                                                                                   | 2, 4, 6                                                                                                                                      |
| Current Rating        | 3A                                                                                                                                                 | 5A                                                                                                                                                       | 3A                                                                                                                 | Signal: 2.2A<br>Power: 5.7A                                                                                                                                          | 3A                                                                                                                                                                | 3A                                                                                                                                                                     | 3A                                                                                                                                                                         | 500mA                                                                               | 3A                                                                                                                                           |
| Operating Temperature | -40 ~ +85 °C                                                                                                                                       | -40 ~ +85 °C                                                                                                                                             | -40 ~ +125 °C                                                                                                      | -40 ~ +85 °C                                                                                                                                                         | -40 ~ +85 °C                                                                                                                                                      | -40 ~ +105 °C                                                                                                                                                          | -40 ~ +105 °C                                                                                                                                                              | -40 ~ +85 °C                                                                        | -40 ~ +125 °C                                                                                                                                |
| Application           | Cable to Cable/<br>Board to Cable                                                                                                                  | Cable to Cable                                                                                                                                           | Board to Cable                                                                                                     | Board to Cable                                                                                                                                                       | Board to Cable                                                                                                                                                    | Cable to Cable                                                                                                                                                         | Cable to Cable                                                                                                                                                             | Cable to Cable/<br>Board to Cable                                                   | Board to Cable                                                                                                                               |
| Features              | Mechanical lock system enabling complete mating. Secondary lock mechanism to ensure correct terminal retention. Simplified crimp type termination. | Waterproof. Mechanical lock system. Grommet seal. Terminals have low insertion force and stress dispersion. Rear cover protects the grommet from damage. | Waterproof. Low profile. Available in reverse mount type. Retainer detects incomplete insertion of socket contact. | Mechanical lock system with audible click. Socket side contact designed with secondary lock. Simplified crimp type termination.                                      | Lightweight. Mating and unmating force less than 80N. Closed box socket contact increases mechanical strength. Preset retainer allows easy wire harness assembly. | Waterproof. Spring separates connectors if not correctly mated. Shorting contact eliminates static discharge. Retainer detects incomplete insertion of socket contact. | Mechanical complete mating method. Spring separates connector if not correctly mated. Shorting contact eliminates static discharge. Retainer detects incomplete insertion. | USB 2.0 compatible. Sold as a complete harness with USB standard receptacle.        | Single contact waterproof. Compact size. Improved vibration resistance by vibration absorption function of rubber. Secondary lock mechanism. |