



**THE DATASHEET OF
MX34012NF1**



Transportation

Socket Housing: **IL-AG5-#S- S3C1** Contacts: IL-AG5-C1-5000 (socket)
 IL-AG5-PC1-5000 (pin)
 Pin housing: **IL-AG5-#P- S3C1** S: single row
 D: double row
 Hand tool: CT150-1-AG5
 Semi auto: 3502-AG5-2
 Automatic: 350-AG5-3B
IL-AG5-#P- S3L2 L: right angle
 T: straight

Socket housing: **MX1900#S51** Contacts: MX19S10K451 (socket)
 MX19P10K451 (pin)
 Dummy pin: MX19000XD1
 Pin housing: **MX1900#P51** 1: Black
 2: Gray
 Hand Tool: CT150-4C-MX19
 Semi auto: 3502-MX19-2B

Socket housing: **MX23A##SF1** Contacts: M23S05K351
 Dummy pin: M120-55780
 Pin header: **MX23A##NF1** 1: Standard
 2: Reverse
 Hand tool: CT160-3B-MX23
 Semi auto: 350-MX23-2
 Front cap: **MX23A##XF1**

Socket housing: **MX340##SF1** Pin header: **MX340##UF1**
 U: Straight
 N: Angled
 1: 3-24 pos
 2: 28-40 pos

| Contacts | Hand Tool | Semi auto | Automatic |
|------------|--------------|-------------|--------------|
| M34S75C4F1 | CT150-2-MX34 | 350-MX34D-2 | 350-MX34B-3B |
| M34S75C4F2 | CT150-1-MX34 | 350-MX34D-2 | 350-MX34B-3B |
| M34S75C4F3 | N/A | 350-MX34C-2 | 350-MX34C-3B |
| M34S75C4F4 | N/A | 350-MX34C-2 | 350-MX34C-3B |

Board Mounting Receptacle: **MX39004NQ1**
 USB Harness: **MX45004S0008397** (150mm)








Socket housing: **MX3600#SQ3** Co
 Pin housing: **MX3600#PQ3** Sem
 Front cap: **MX36004XF3** Aut

Socket housing: **MX37004SP3** Cont
 Pin housing: **MX37004PP3** Semi A
 Autom

Socket housing: **MX444##SF1** Wire O.I.
 Pin header: **MX444##NF1** 1, 1.4-1.
 Retainer: **MX444##XR1** 2, 1.6-1.
 Wire seal: **MX444000XP1**

Socket housing: **MX31 ### SG A** Mo
 31, 34, 35 pos
 Pin header: **MX31 ### N F D** M
 70, 104, 135 pos
 F: All
 Q: Sel

| Contacts | Wire (AWG) |
|-------------------------|------------|
| M31S07K4FA (Sn, signal) | #22-20 |
| M31S07K4QA (Au, signal) | #22-20 |
| M31S07K4FB (Sn, signal) | #24 |
| M31S05K3FA (Sn, power) | #18-16 |
| M31S05K4FA (Sn, power) | #22-18 |
| M31S05K4QA (Au, power) | #22-18 |

| Series | IL-AG5 | MX19 | MX23A | MX31 | MX34 | MX36 | MX37 |
|-----------------------|--|--|--|---|---|--|---|
| Photo |  |  |  |  |  |  |  |
| Pitch | 2.5mm | 2.5mm | 2.5mm | Signal: 2.2mm Power: 3.2mm | 2.2mm | 2.5mm | 2.2mm |
| Wire Size | AWG #22-18 AV,AVS,AVSS: 0.3 to 0.5mm ² AVS, AVSS: 0.85mm ² | AWG #22-20 CAVS: 0.3 to 0.5mm ² AVSS: 0.5mm ² | AWG #22-16 AVSS, AVS: 0.5 to 1.25mm ² | Signal: AWG #22-20 Power: AWG #22-16 Signal: AVS, AVSS, AVX 0.3 to 0.5mm ² Power: AVS, AVSS, AVX 0.3 to 1.25mm ² | AWG #22-20 AVSS: 0.3, 0.5mm ² CHFUS: 0.22 to 0.35mm ² , 0.5 to 0.75mm ² CAN SD: 0.35mm ² | AWG #20 AVSS 0.5, AVSS 0.5F, AVSSX 0.5f, TVSSX 0.5f | AWG #20 AVSS 0.5, AVSS 0.5F, AVSSX 0.5f, TVSSX 0.5f |
| Pin Count | 1 row: 4,5,6, 7,10 2 rows: 14,16, 18,22,30 | 2, 4 | 12, 18, 26, 34, 36,40 | Pin: 70,98,104,135 Socket: 31,34,35 | 3,5,7,12,16,20, 24,28,32,36,40 | 2, 4 | 4 |
| Current Rating | 3A | 5A | 3A | Signal: 2.2A Power: 5.7A | 3A | 3A | 3A |
| Operating Temperature | -40 ~ +85 °C | -40 ~ +85 °C | -40 ~ +125 °C | -40 ~ +85 °C | -40 ~ +85 °C | -40 ~ +105 °C | -40 ~ +105 °C |
| Application | Cable to Cable/ Board to Cable | Cable to Cable | Board to Cable | Board to Cable | Board to Cable | Cable to Cable | Cable 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 separators if not correctly mated. Shorting contact eliminates static discharge. Retainer detects incomplete insertion of socket contact. | Mechanical complete mating method. Spring separators connector if not correctly mated. Shorting contact eliminates static discharge. Retainer detects incomplete insertion. |

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