

## Low Insertion Force (LIF) Connector

### FEATURES

- Connection system with integrated mechanical assist lever
- Lever operation not to be affected by the wire routing direction due to lever location
- Connector can be easily pre-set into mating side
- Lever assist allows for higher circuit count connectors to be used, reducing number of mating operations

### BENEFITS

- Connector mating force reduction : 40 ~ 70%
- Connector mating force (lever operating force) : 75 N max.
- Space : Approximately 35% reduction (including lever track)
- Fewer connections required improves quality and productivity

### SPECIFICATIONS

|                             |                 |  |
|-----------------------------|-----------------|--|
| Material                    | Connector       | HPA  |
|                             | Male Terminal   | Copper Alloy (Sn/Au Plate)                       |
|                             | Female Terminal | Copper Alloy (Sn/Au Plate)                       |
| Operating Temperature Range |                 | -40°C ~ 100°C (120°C max temp.) (USCAR Class II) |
| Voltage Drop                |                 | 10mΩ <max (Term./Term.) (Crimp-To-Crimp)         |
| Isolation resistance        |                 | 500VDC, 20MΩ Min                                 |
| Dielectric Resistance       |                 | 1000VAC (1 min.)                                 |

| Pole | Polarity | Color / Description             | Male Part #  | Female Part # |
|------|----------|---------------------------------|--------------|---------------|
| 15   | A        | Black 9x2.8, 6x6.3              | -            | 7283-672-30   |
| 15   | B        | Natural 9x2.8, 6x6.3            | -            | 7283-6373     |
| 26   | A        | Light Grey 22x1.5, 2x2.8, 2x6.3 | -            | 7283-6436-40  |
| 26   | B        | Blue 22x1.5, 2x2.8, 2x6.3       | -            | 7283-6437-90  |
| 26   | C        | Green 22x1.5, 2x2.8, 2x6.3      | -            | 7283-6438-60  |
| 26   | D        | Black 22x1.5, 2x2.8, 2x6.3      | 7282-6376-30 | 7283-6376-30  |



7283-6372-30



7283-6373



7283-6436-40



7283-6437-90



7283-6438-60



7283-6376-30

## Terminals

| Description      |                 | Part Number      | Plating          | Applicable Wire Size      |              |                          |
|------------------|-----------------|------------------|------------------|---------------------------|--------------|--------------------------|
|                  |                 |                  |                  | Europe (mm <sup>2</sup> ) | U.S.A. (AWG) | Japan (mm <sup>2</sup> ) |
| Male Terminal    | 1.5mm           | 7114-4100-02/-08 | Sn/Au            | 0.35 ~ 0.5                | 22 ~ 20      | 0.3 ~ 0.5                |
|                  |                 | 7114-4101-02/-08 | Sn/Au            | 0.75 ~ 1.0                | 18 ~ 16      | 0.85 ~ 1.25              |
|                  | 2.8mm           | 7114-4110-02     | Sn               | 0.35 ~ 0.5                | 22 ~ 20      | 0.3 ~ 0.5                |
|                  |                 | 7114-4111-02     | Sn               | 0.75 ~ 1.0                | 18 ~ 16      | 0.85 ~ 1.25              |
|                  |                 | 7114-4112-02     | Sn               | 1.5 ~ 2.5                 | 14           | 2.0                      |
|                  | 6.3mm           | 7114-4120-02     | Sn               | 0.5 ~ 1.0                 | 20 ~ 16      | 0.5 ~ 1.25               |
|                  |                 | 7114-4121-02     | Sn               | 1.5 ~ 2.5                 | 14           | 2.0                      |
|                  |                 | 7114-4122-02     | Sn               | 4.0                       | 12           | 3.0                      |
|                  | Female Terminal | 1.5mm            | 7116-4100-02/-08 | Sn/Au                     | 0.35 ~ 0.5   | 22 ~ 20                  |
| 7116-4101-02/-08 |                 |                  | Sn/Au            | 0.75 ~ 1.0                | 18 ~ 16      | 0.85 ~ 1.25              |
| 2.8mm            |                 | 7116-4110-02     | Sn               | 0.35 ~ 0.5                | 22 ~ 20      | 0.3 ~ 0.5                |
|                  |                 | 7116-4111-02     | Sn               | 0.75 ~ 1.0                | 18 ~ 16      | 0.85 ~ 1.25              |
|                  |                 | 7116-4112-02     | Sn               | 1.5 ~ 2.5                 | 14           | 2.0                      |
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|                  |                 | 7116-4122-02     | Sn               | 4.0                       | 12           | 3.0                      |

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