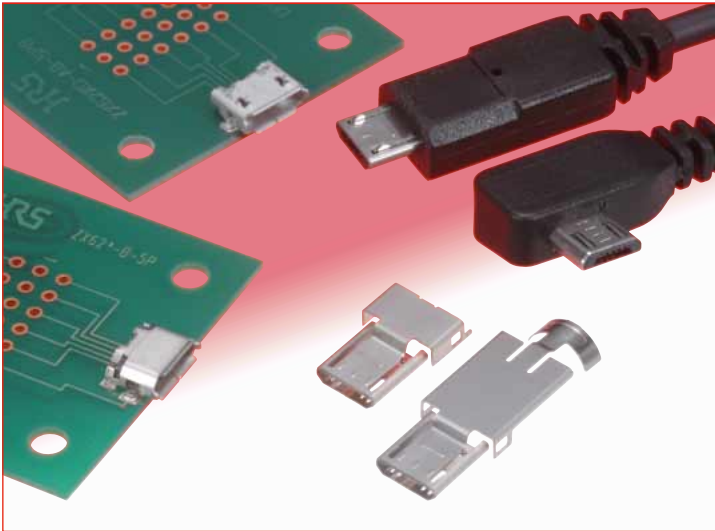


# Micro-USB connectors meeting USB 2.0 Standard

## ZX Series



Note: Contact us to ascertain whether a TID number has been acquired for an individual product.

Fig.1

### ■ Overview

Extremely small highly reliable connectors complying with physical, electrical and environmental requirements of Micro-USB standard (USB 2.0). Receptacles and plugs are available in a wide variety of mounting and termination styles, allowing their use in various applications.

### ■ Features

#### 1. Size reduction

Compared with the standard Mini-USB connectors, the size of ZX connectors is reduced by approximately 60% while still allowing a high-speed data transfer of 480 Mbps, specified in USB 2.0.

#### 2. Receptacle styles

Two interface configurations: Micro-B and Micro-AB in standard, mid-mount and reverse mounting styles. SMT and through-hole (shell) PC board terminations.

#### 3. Plug styles

Corresponding to the receptacle styles, two interface configurations: Micro-A and Micro-B, with direct wire or PCB wire soldering. Several plug styles can be used for data transmission, earphone or charging applications.

#### 4. Smooth mating and unmating

A smooth mating and unmating operation results in less wear and a longer product life. The unique Hirose active latch mechanism produces a reliable and durable connector.

Even after repeated use, the user will experience a smooth click sensation when mating the connectors.

Note: The statement above only applies when using both plug and receptacles made by Hirose Electric.

#### 5. Hirose was the first company to obtain a Micro-USB certification (TID number).

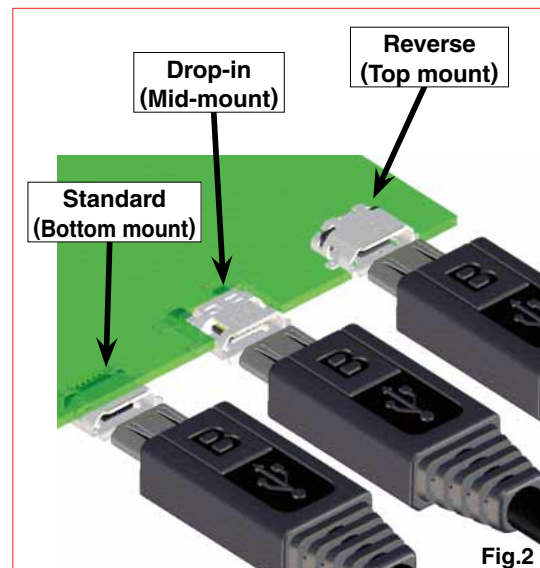


Fig.2

### USB 2.0 Hi-Speed (480 Mbps)

Eye diagram measurement results:  
Measured with 2.4 m long USB 2.0 cable

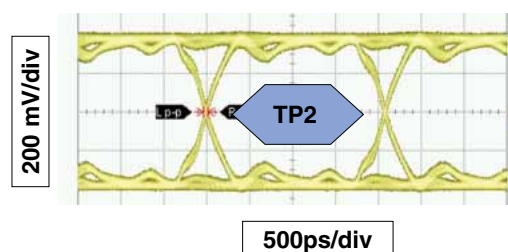


Fig.3

## Specifications

| Ratings                          | Current rating | 1 A (per contact) or<br>1.8 A (contacts No. 1 and 5) and<br>0.5 A (contacts No. 2, 3, and 4) | Voltage rating                                     | 30 V AC                 |
|----------------------------------|----------------|----------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------|
|                                  |                |                                                                                              | Operating temperature range                        | -30°C to +85 °C (Note1) |
|                                  |                |                                                                                              | Storage temperature range                          | -30 °C to +60°C         |
| Item                             |                | Specification                                                                                | Conditions                                         |                         |
| 1. Contact resistance            |                | 30 mΩ max.                                                                                   | 100 mA                                             |                         |
| 2. Withstanding voltage          |                | No flashover or insulation breakdown                                                         | 100 V AC / 1 minute                                |                         |
| 3. Capacitance                   |                | 2 pF max.                                                                                    | Between adjacent contacts at 1,000 Hz (AC voltage) |                         |
| 4. Durability                    |                | Contact resistance: Rise from initial value of 10 mΩ max.                                    | 10,000 cycles                                      |                         |
| 5. Total insertion/removal force |                | Insertion force: 35 N max., Removal force: 8 N min.                                          | Mated with corresponding connector                 |                         |

Note1: Includes temperature rise caused by current flow.

Note2: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

## Materials

### ●Receptacles

| Part      | Material        | Finish                         | Remarks |
|-----------|-----------------|--------------------------------|---------|
| Insulator | LCP             | Micro-B: Black, Micro-AB: Gray | UL94V-0 |
| Contacts  | Copper alloy    | Selective gold plated          | _____   |
| Shell     | Stainless steel | Tin alloy plating              | _____   |

### ●Plugs

| Part      | Material        | Finish                         | Remarks |
|-----------|-----------------|--------------------------------|---------|
| Insulator | LCP             | Micro-B: Black, Micro-AB: Gray | UL94V-0 |
| Contacts  | Copper alloy    | Selective gold plated          | _____   |
| Shell     | Stainless steel | Tin alloy plating              | _____   |

## Ordering information

### ●Receptacles

**ZX 62 RD - B - 5 P \* 8**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

### ●Plugs

**ZX 40 - B - 5 S \* - UNIT**

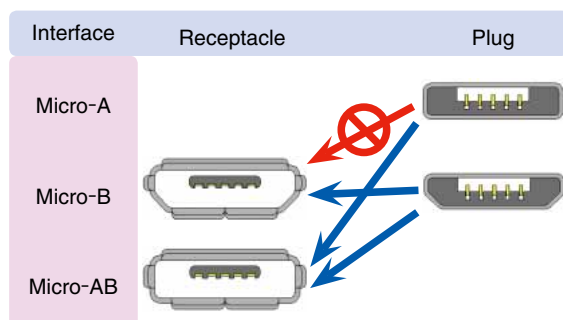
① ② ④ ⑤ ⑥ ⑦ ⑨

**ZX 40 - B - SLDA**

① ② ④ ⑨

|                                              |                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ① Series name                                | ZX                                                                                                                                                               |
| ② Termination style                          | 10's: Right-angle PCB wire, SMT<br>20's: Straight, PCB wire<br>40's: Direct wire<br>60's: Right-angle, PCB wire<br>80's: Cradle SMT                              |
| ③ Board mounting style (Receptacles)         | Blank Standard (Bottom mount)<br>D Standard (Bottom mount) through hole<br>R Reverse (Top mount)<br>RD Reverse (Top mount) through hole<br>M Drop-in (Mid-mount) |
| ④ Mating side configuration                  | A Micro-A<br>B Micro-B<br>AB Micro-AB                                                                                                                            |
| ⑤ Number of contacts                         | 5                                                                                                                                                                |
| ⑥ Contact type                               | P Receptacle- Male<br>S Plug – Female                                                                                                                            |
| ⑦ Serial No.                                 |                                                                                                                                                                  |
| ⑧ Shell termination style –Blank Receptacles | SMT<br>8 Through hole (solder tab length: 0.8mm)                                                                                                                 |
| ⑨ Components-plugs                           | UNIT Assembly (Insulator/contact/lock) Cover (Note 1)                                                                                                            |

Note 1: Classifiers such as A, B, and C are entered for \*.



## ■ Configurations

|                       | Mating side configuration | Type                                        |           | Part No.                                                                                                    | 3D Image                                                                                           | Page      |
|-----------------------|---------------------------|---------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------|
| R e c e p t a c l e s | Micro-B                   | Standard                                    | SMT       | ZX62-B-5PA(11)                                                                                              |                 | 4         |
|                       |                           |                                             | SMT + DIP | ZX62D-B-5PA8                                                                                                |                 | 4         |
|                       |                           | Reverse                                     | SMT       | ZX62R-B-5P                                                                                                  |                 | 5         |
|                       |                           | Drop-in                                     | SMT       | ZX62M-B-5P(01)                                                                                              |                 | 5         |
|                       | Micro-AB                  | Standard                                    | SMT       | ZX62-AB-5PA(11)                                                                                             |                 | 6         |
|                       |                           |                                             | SMT + DIP | ZX62D-AB-5P8                                                                                                |                 | 6         |
|                       |                           | Reverse                                     | SMT       | ZX62R-AB-5P                                                                                                 |                 | 7         |
|                       |                           |                                             | SMT + DIP | ZX62RD-AB-5P8                                                                                               |               | 7         |
| P l u g s             | Micro-B                   | Direct wire soldering                       |           | Assembly (insulator/contacts/lock) :ZX40-B-5S-UNIT(12)<br>Cover-top :ZX40-B-SLDA<br>Cover-bottom :ZX40-SLDB |               | 9 and 10  |
|                       |                           | PCB wire soldering (straight, through hole) |           | Assembly (insulator/contacts/lock) :ZX20-B-5S-UNIT<br>Cover :ZX20-B-SLDC                                    |               | 11        |
|                       |                           | PCB wire soldering (SMT)                    |           | Assembly (insulator/contacts/lock) :ZX64-B-5S-UNIT(14)<br>Cover-top :ZX64-B-SLDA<br>Cover-bottom :ZX64-SLDB |               | 12 and 13 |
|                       |                           | PCB wire soldering (SMT)                    |           | Assembly (insulator/contacts/lock) :ZX64-B-5S-UNIT(14)<br>Cover :ZX64-B-SLDC                                |               | 12 and 14 |
|                       | Micro-A                   | Direct wire soldering                       |           | Assembly (insulator/contacts/lock) :ZX40-A-5S-UNIT<br>Cover-top :ZX40-A-SLDA<br>Cover-bottom :ZX40-SLDB     |               | 15 and 16 |
|                       |                           |                                             |           |                                                                                                             |                                                                                                    |           |
| C r a d l e s         | Micro-B                   | SMT + DIP                                   |           | ZX80-B-5S                                                                                                   | With lock     | 17        |
|                       |                           |                                             |           | ZX80-B-5SA                                                                                                  | Without lock  | 17        |

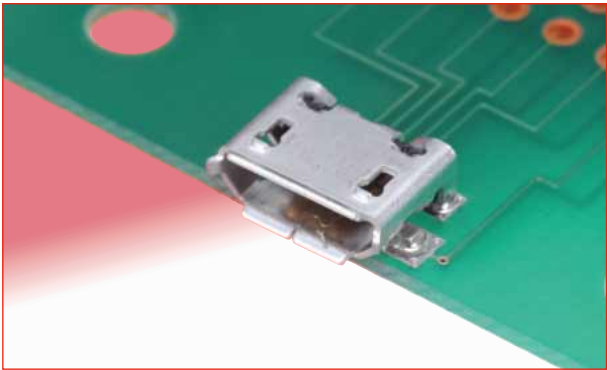
Note: 1. Part numbers in the Plugs section of the above table list the Assembly (insulator/contacts/locks) and the corresponding Shields/Covers.

Note: 2. Optional Printed Circuit boards for the Plugs are shown for reference only. Not supplied with applicable connectors.

Note: 3. The color of the insulators body in the Assembly (insulator/contacts/lock) shown in the 3D Image column above is blue for clarity. Refer to the Materials (Page 2) for correct colors.

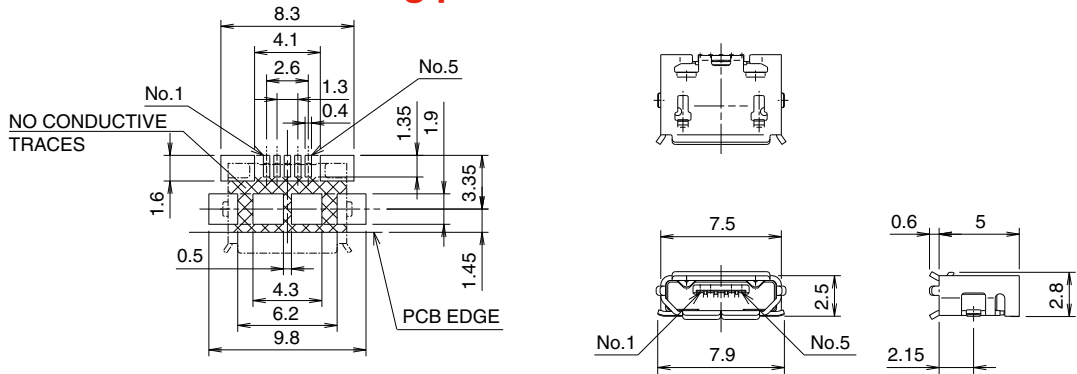
■Receptacles

●Micro B - Standard (Bottom mount), Shell SMT



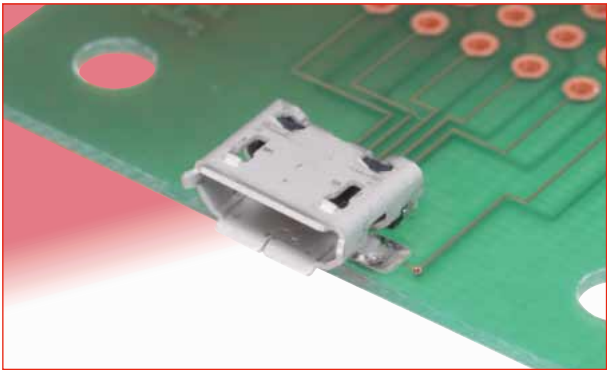
| Part No.       | HRS No.       | Packaging      |
|----------------|---------------|----------------|
| ZX62-B-5PA(11) | 242-0033-8 11 | 3,500 pcs/reel |

◆Recommended PCB mounting pattern



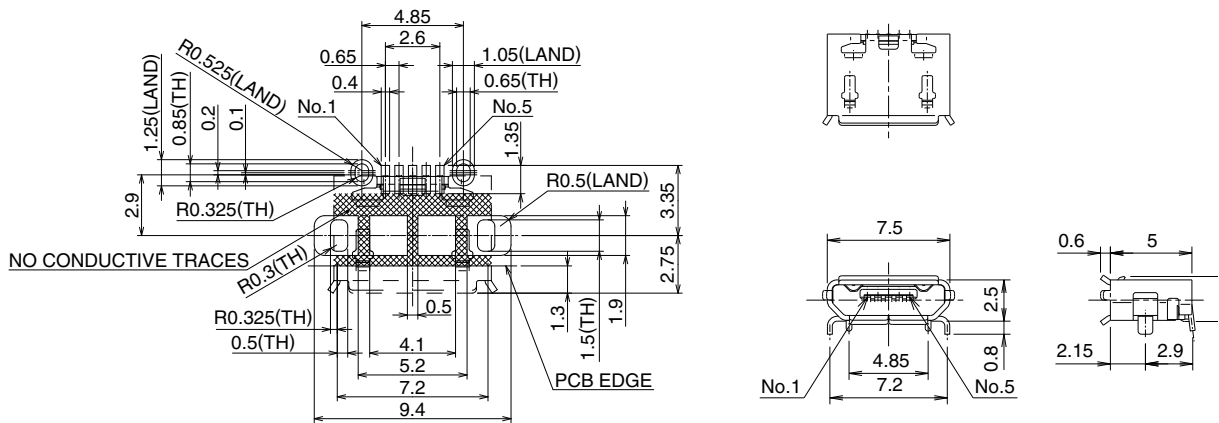
●Micro B - Standard (Bottom mount), Shell through hole

All dimensions: mm



| Part No.     | HRS No.    | Packaging      |
|--------------|------------|----------------|
| ZX62D-B-5PA8 | 242-0056-3 | 2,000 pcs/reel |

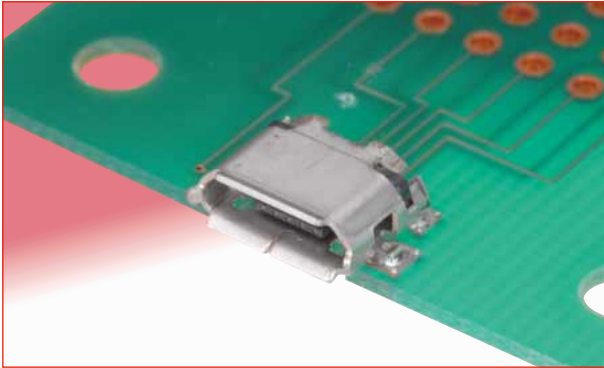
◆Recommended PCB mounting pattern



All dimensions: mm

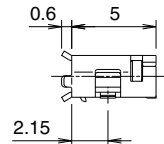
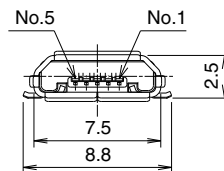
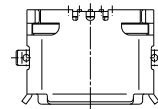
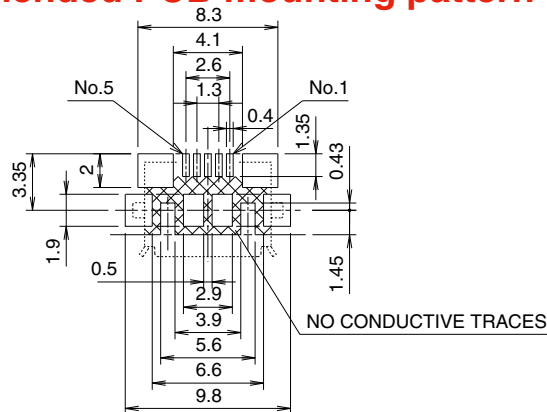
## ■Receptacles

### ●Micro B - Reverse (Top mount) Shell SMT



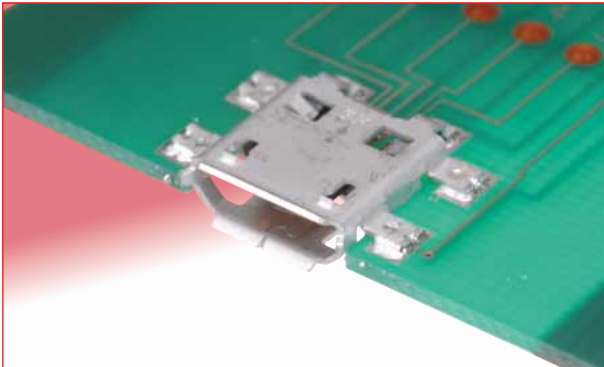
| Part No.   | HRS No.    | Packaging      |
|------------|------------|----------------|
| ZX62R-B-5P | 242-0028-8 | 2,000 pcs/reel |

### ◆Recommended PCB mounting pattern

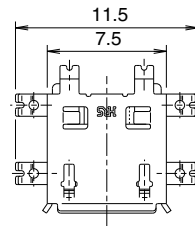


All dimensions: mm

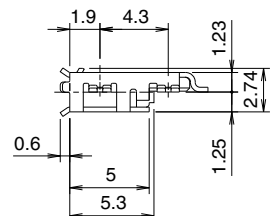
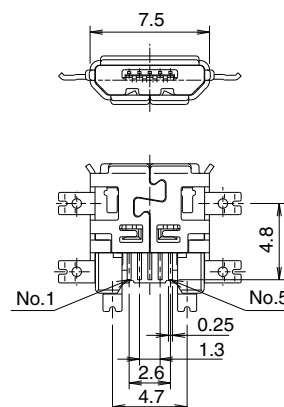
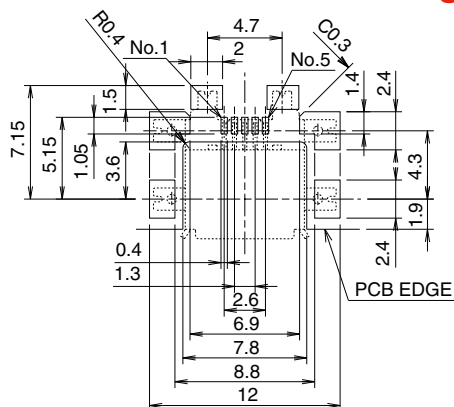
### ●Micro B - Drop-in (Mid-mount), Shell SMT



| Part No.       | HRS No.       | Packaging      |
|----------------|---------------|----------------|
| ZX62M-B-5P(01) | 242-0024-7 01 | 1,500 pcs/reel |



### ◆Recommended PCB mounting pattern

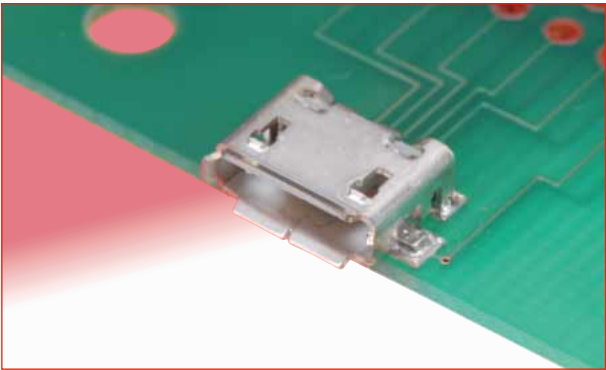


All dimensions: mm



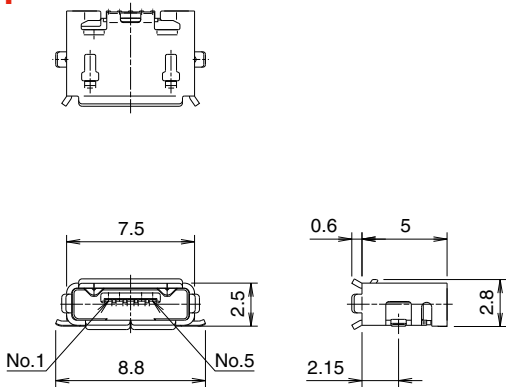
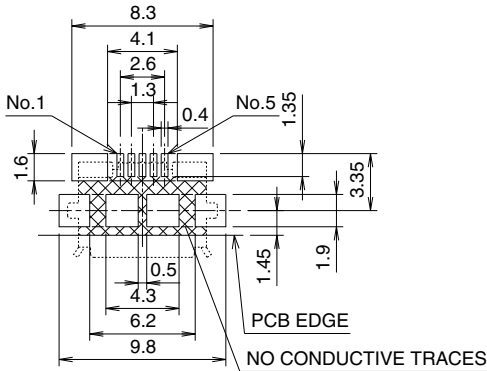
■Receptacles

●Micro AB - Standard (Bottom mount), Shell SMT



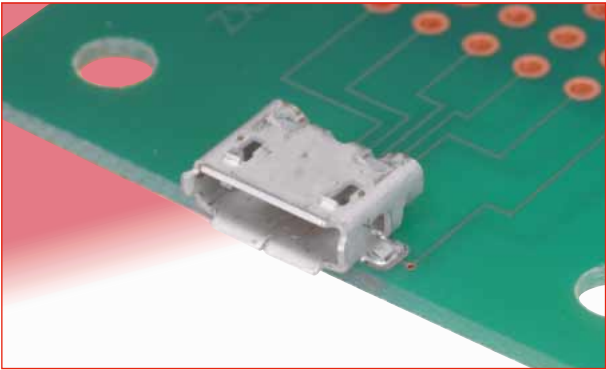
| Part No.        | HRS No.       | Packaging      |
|-----------------|---------------|----------------|
| ZX62-AB-5PA(11) | 242-0045-7 11 | 3,500 pcs/reel |

◆Recommended PCB mounting pattern



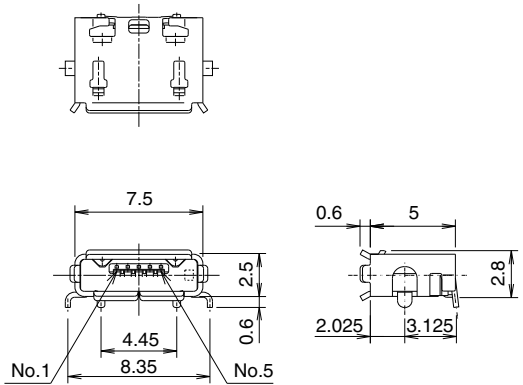
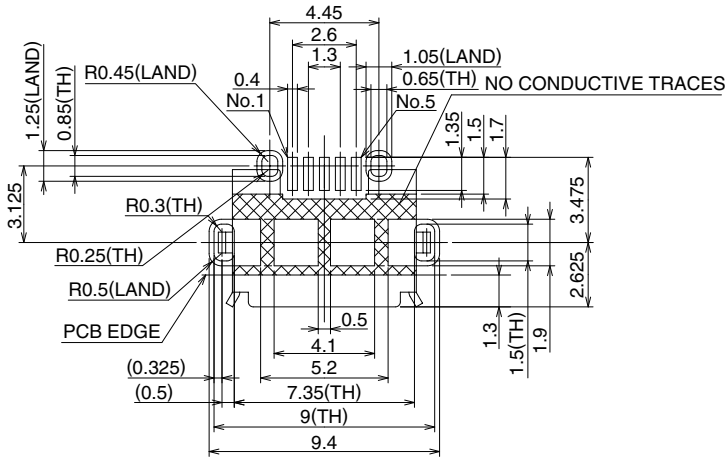
●Micro AB - Standard (Bottom mount), Shell through hole

All dimensions: mm



| Part No.     | HRS No.    | Packaging      |
|--------------|------------|----------------|
| ZX62D-AB-5P8 | 242-0027-5 | 2,000 pcs/reel |

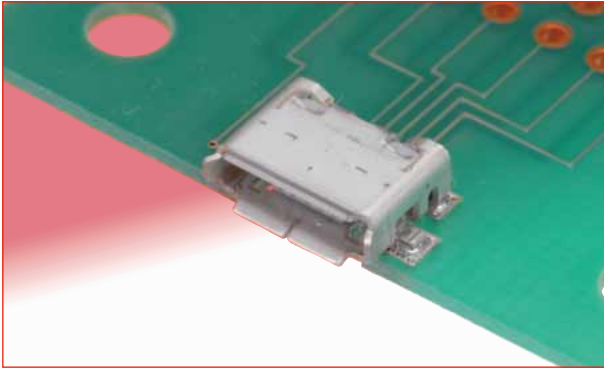
◆Recommended PCB mounting pattern



All dimensions: mm

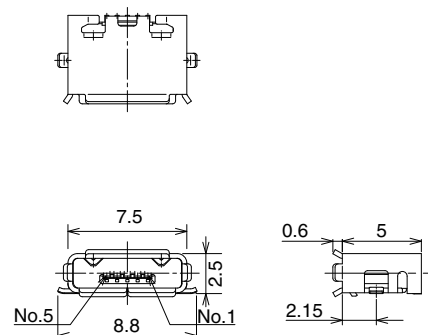
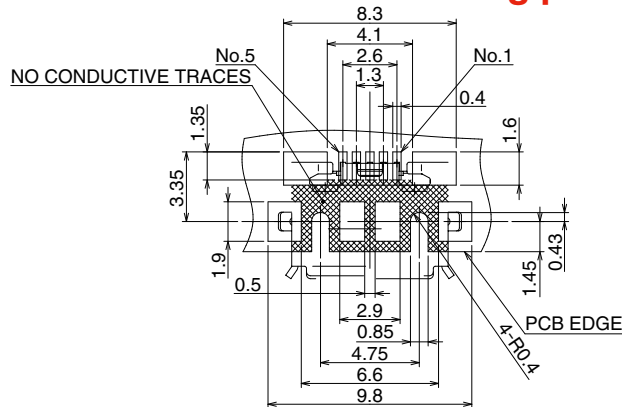
## ■Receptacles

### ●Micro AB - Reverse (Top mount), Shell SMT



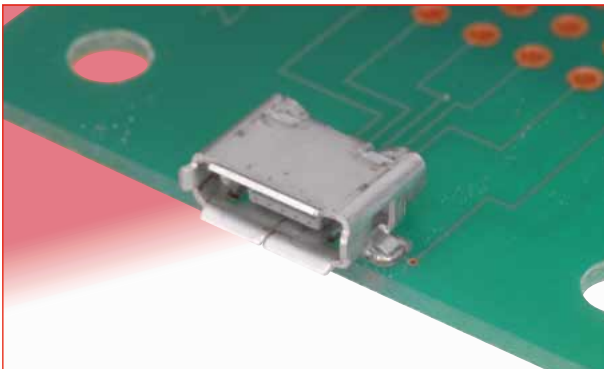
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| ZX62R-AB-5P | 242-0035-3 | 2,000 pcs/reel |

### ◆Recommended PCB mounting pattern



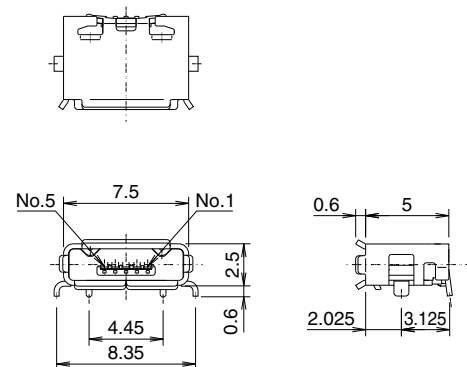
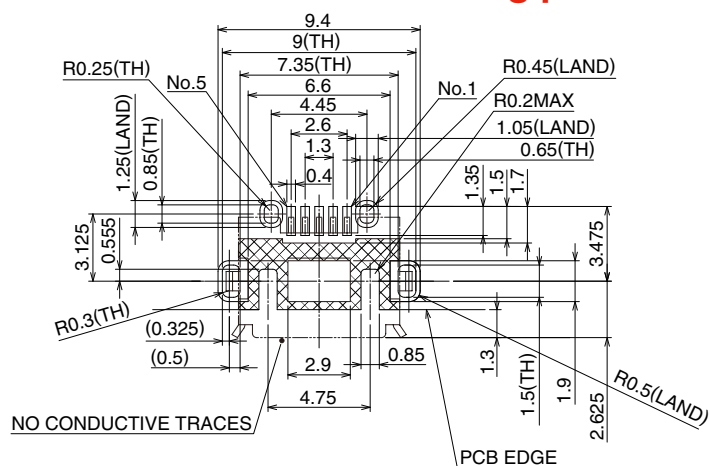
### ●Micro AB - Reverse (Top mount), Shell through hole

All dimensions: mm

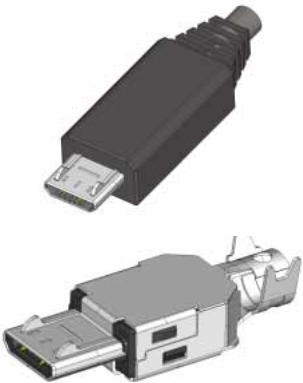
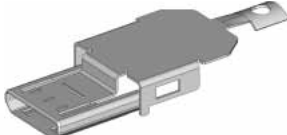
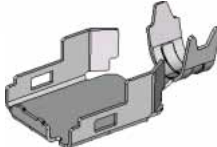
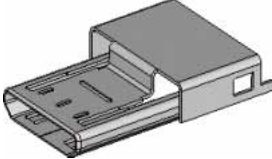
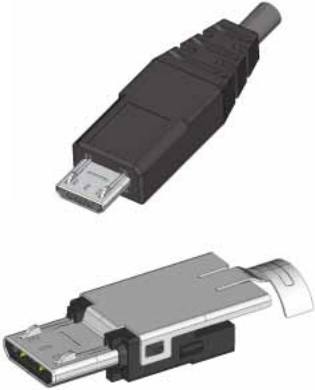
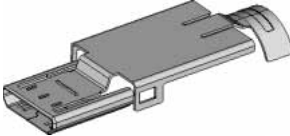
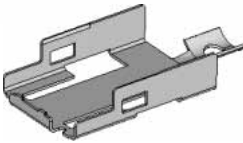


| Part No.      | HRS No.    | Packaging      |
|---------------|------------|----------------|
| ZX62RD-AB-5P8 | 242-0025-0 | 2,000 pcs/reel |

### ◆Recommended PCB mounting pattern



All dimensions: mm

| Plugs – assembled (not-terminated, without overmold)                                                                      | Components                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>ZX40 - Direct wire soldering</div>  | <div><div>ZX40-*SLDA<br/>Cover-top</div></div> <div><div>ZX40-*5S-UNIT<br/>Assembly (insulator/<br/>contacts/lock)<br/>*No PCB required</div></div> <div><div>ZX40-SLDB<br/>Cover-bottom</div></div>                                    |
| <div>ZX20 - PCB wire soldering</div>    | <div><div>ZX20-*SLDC<br/>Cover</div></div> <div><div>ZX20-*5S-UNIT<br/>Assembly<br/>(insulator/contacts/lock)<br/>*Vertical through hole PCB<br/>termination</div></div>                                                                                                                                                 |
| <div>ZX64 - PCB wire soldering</div>   | <div><div>ZX64-*SLDA<br/>Cover-top</div></div> <div><div>ZX64-*5S-UNIT<br/>Assembly (insulator/<br/>contacts/lock)<br/>*Right angle through hole<br/>PCB termination</div></div> <div><div>ZX64-SLDB<br/>Cover-bottom</div></div> |



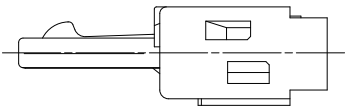
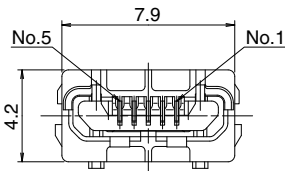
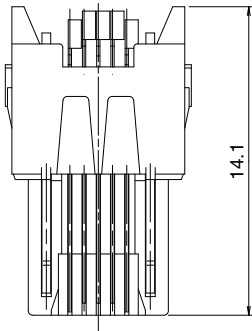
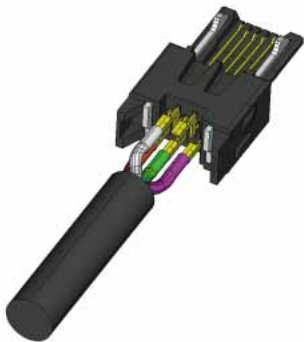
■Plugs

●Micro B - Assembly (insulator/contacts/lock) – Direct wire soldering



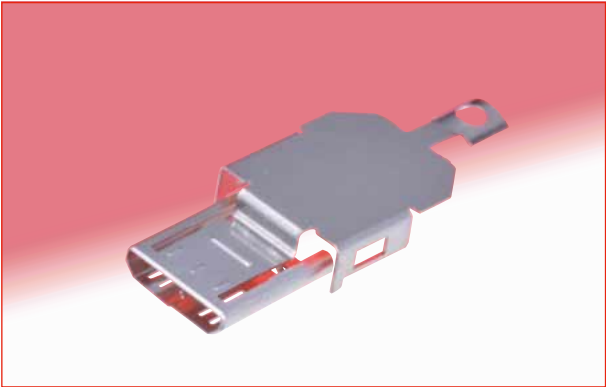
| Part No.           | HRS No.       | Packaging      |
|--------------------|---------------|----------------|
| ZX40-B-5S-UNIT(12) | 242-0002-4 12 | 4,000 pcs/reel |

Contact HRS for Cable Termination Procedure Manual.

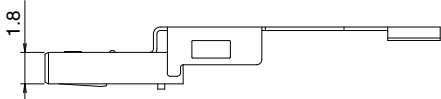
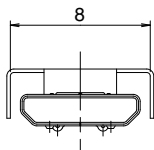
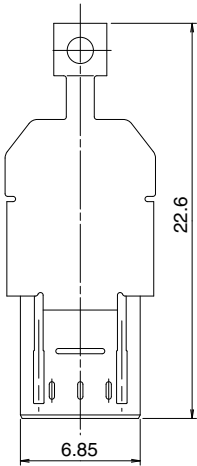


All dimensions: mm

●Micro B - Component, Cover-top - Direct wire soldering



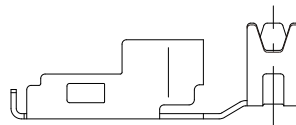
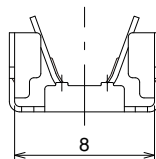
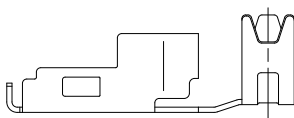
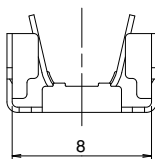
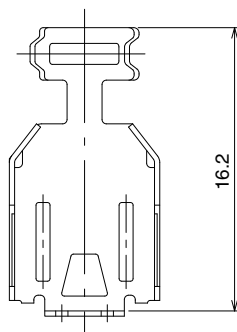
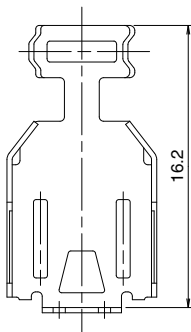
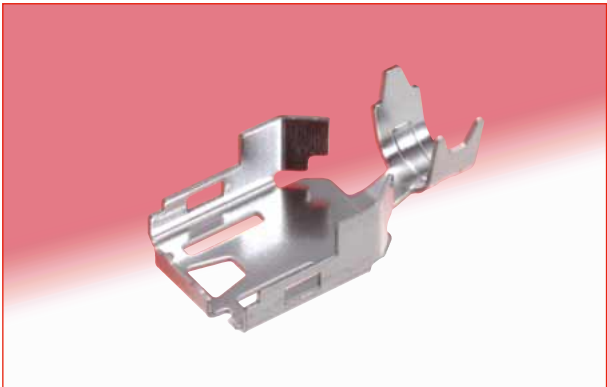
| Part No.    | HRS No.    | Packaging      |
|-------------|------------|----------------|
| ZX40-B-SLDA | 242-0003-7 | 4,000 pcs/reel |



All dimensions: mm

■Plugs

●Micro A, Micro B - Component, Cover-bottom - Direct wire soldering



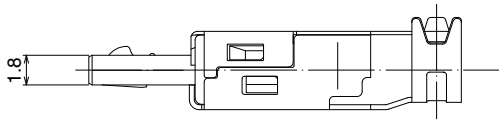
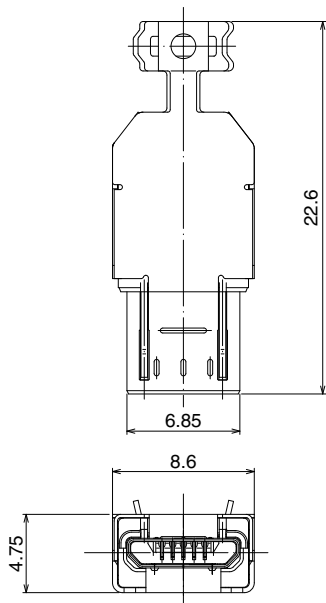
All dimensions: mm

ZX40-SLDB

ZX40-SLDB(3.3)

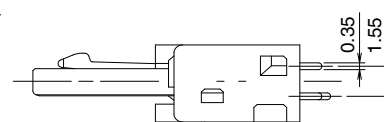
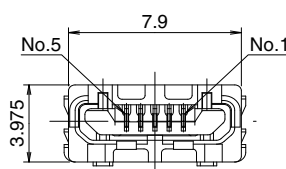
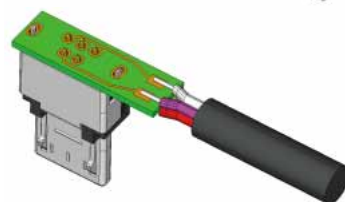
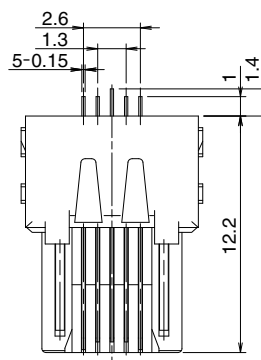
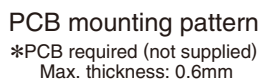
| Part No.       | HRS No.    | Packaging      | Cable dia. |
|----------------|------------|----------------|------------|
| ZX40-SLDB      | 242-0004-0 | 4,000 pcs/reel | φ3.8       |
| ZX40-SLDB(3.3) | 242-0023-4 |                | φ3.3       |

●Assembled



All dimensions: mm

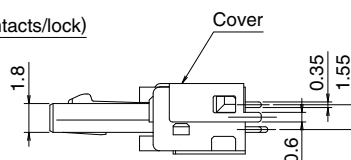
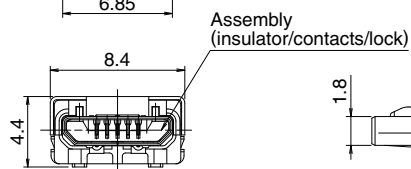
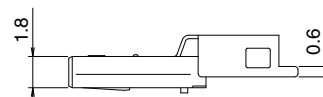
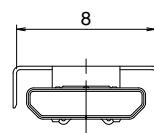
### ●Micro B - Assembly (insulator/contacts/lock) - Vertical through hole PCB wire soldering (non-direct)



All dimensions: mm



Technical drawing of a mechanical part with dimensions: 8.2, 2-0.2, 1.1, 12.1, and 6.85.



All dimensions: mm

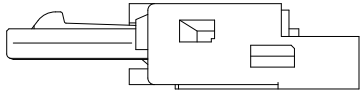
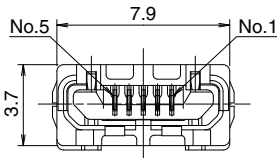
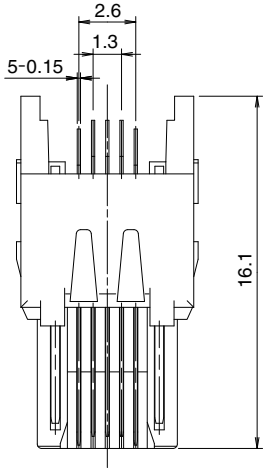
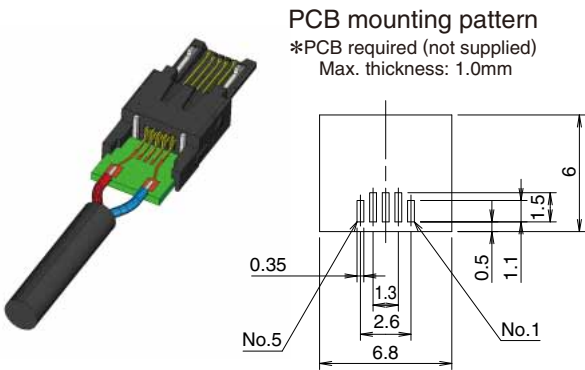
■Plugs

●Micro B - Assembly (insulator/contacts/lock) - Right angle SMT



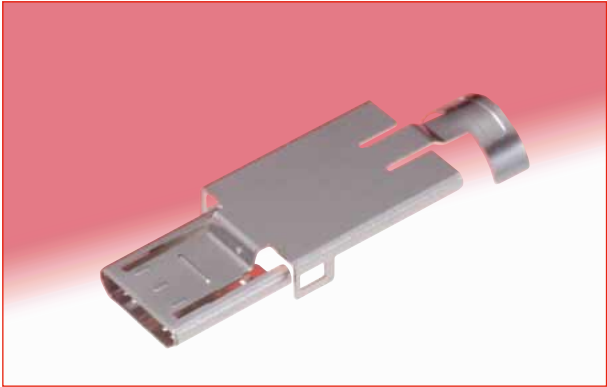
| Part No.           | HRS No.       | Packaging |
|--------------------|---------------|-----------|
| ZX64-B-5S-UNIT(14) | 242-0009-3 14 | 1 piece   |

Contact HRS for Cable Termination Procedure Manual.

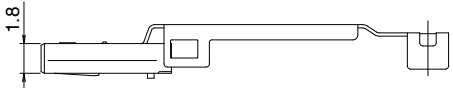
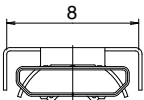
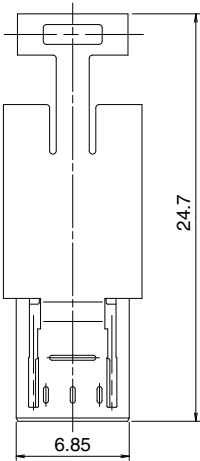


All dimensions: mm

●Micro B - Component, Cover-top – Right angle SMT



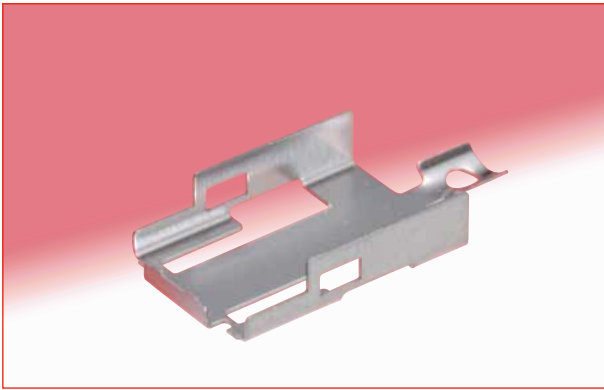
| Part No.    | HRS No.    | Packaging      |
|-------------|------------|----------------|
| ZX64-B-SLDA | 242-0013-0 | 4,000 pcs/reel |



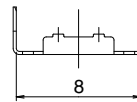
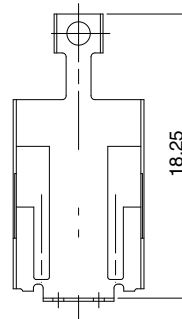
All dimensions: mm

## Plugs

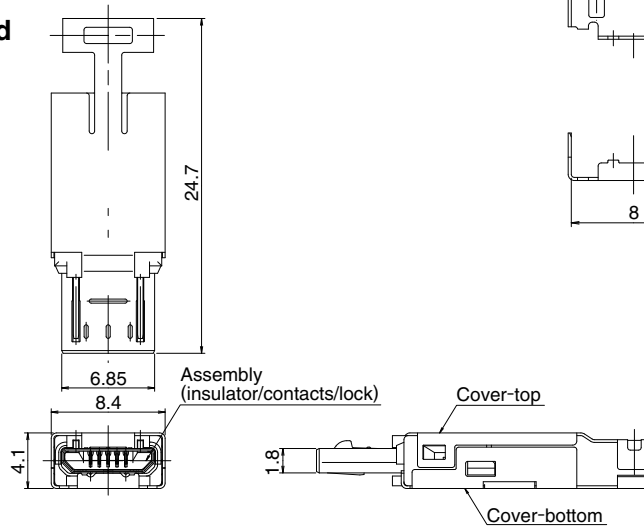
### Micro B - Component, Cover-bottom - Right angle SMT



| Part No.  | HRS No.    | Packaging      |
|-----------|------------|----------------|
| ZX64-SLDB | 242-0049-8 | 4,000 pcs/reel |



### Assembled

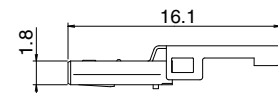
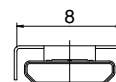
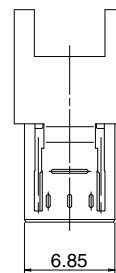


All dimensions: mm

### Micro B - Component, Shell/cover – Right angle SMT

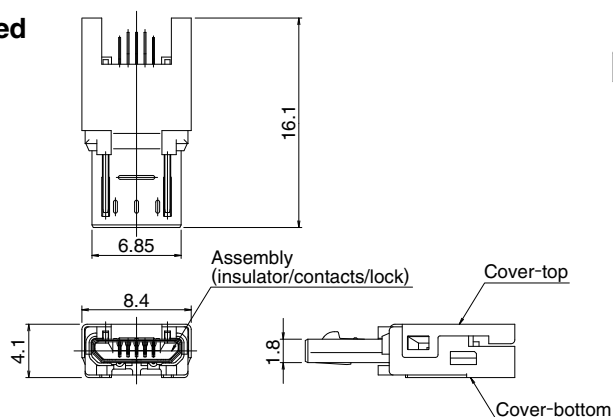


| Part No.    | HRS No.    | Packaging      |
|-------------|------------|----------------|
| ZX64-B-SLDC | 242-0018-4 | 4,000 pcs/reel |



Shell/cover, without cable clamp  
This shell/cover does not require ZX64-SLDB.

### Assembled

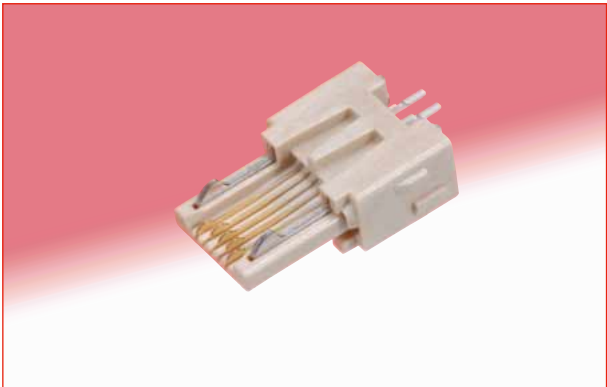


All dimensions: mm



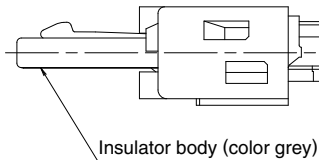
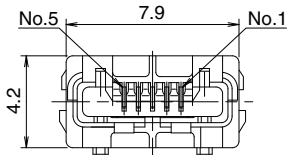
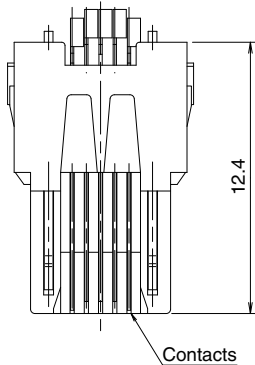
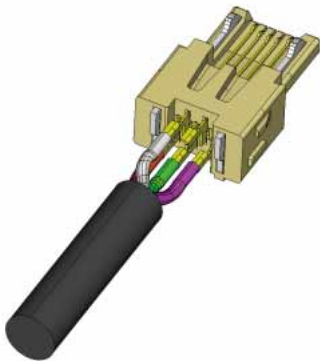
■Plugs

●Micro A - Assembly (insulator/contacts/lock) - Direct wire soldering



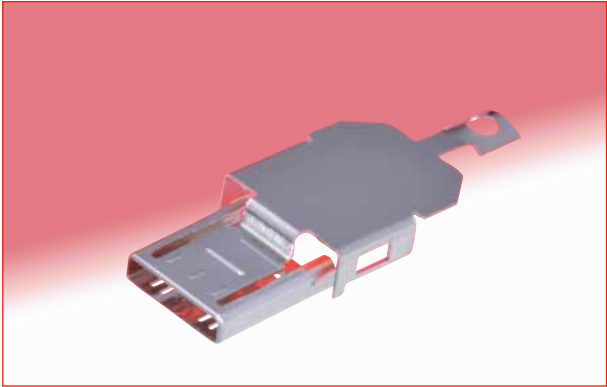
| Part No.       | HRS No.    | Packaging |
|----------------|------------|-----------|
| ZX40-A-5S-UNIT | 242-0010-2 | 1 piece   |

Contact HRS for Cable Termination Procedure Manual.

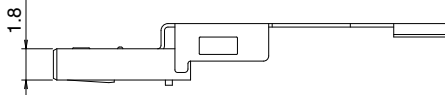
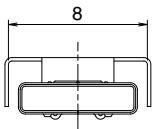
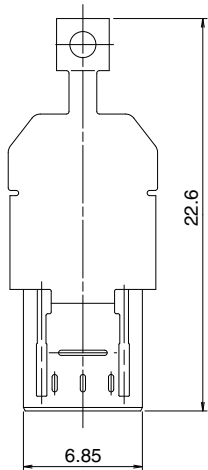


All dimensions: mm

●Micro A - Component, Cover-top - Direct wire soldering



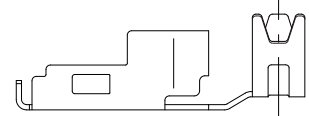
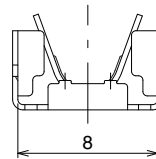
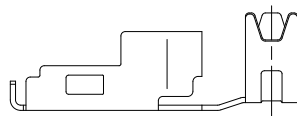
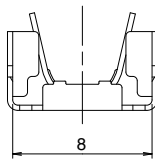
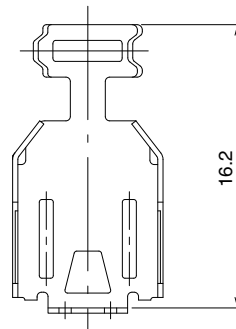
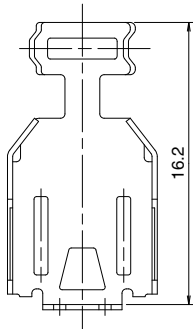
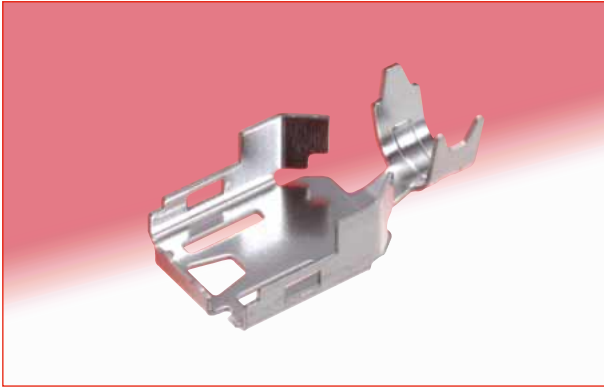
| Part No.    | HRS No.    | Packaging      |
|-------------|------------|----------------|
| ZX40-A-SLDA | 242-0011-5 | 4,000 pcs/reel |



All dimensions: mm

## ■ Plugs

### ● Micro A, Micro B - Component, Cover-bottom - Direct wire soldering



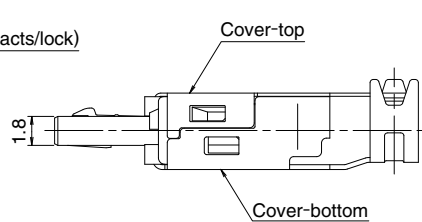
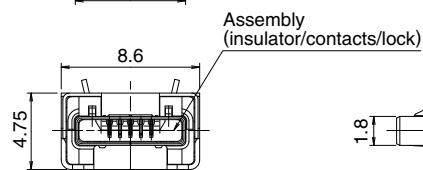
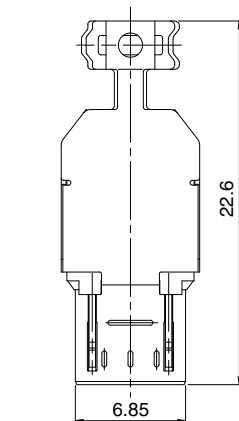
All dimensions: mm

ZX40-SLDB

ZX40-SLDB(3.3)

| Part No.       | HRS No.    | Packaging      | Cable dia. |
|----------------|------------|----------------|------------|
| ZX40-SLDB      | 242-0004-0 | 4,000 pcs/reel | φ3.8       |
| ZX40-SLDB(3.3) | 242-0023-4 |                | φ3.3       |

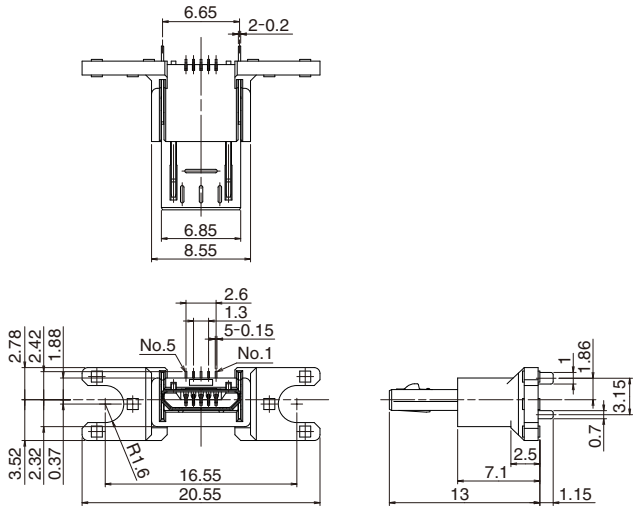
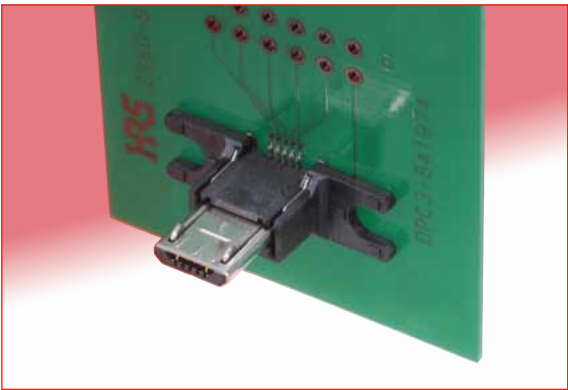
### ● Assembled



All dimensions: mm

■Plug-Vertical, cradle mount, Shell through hole

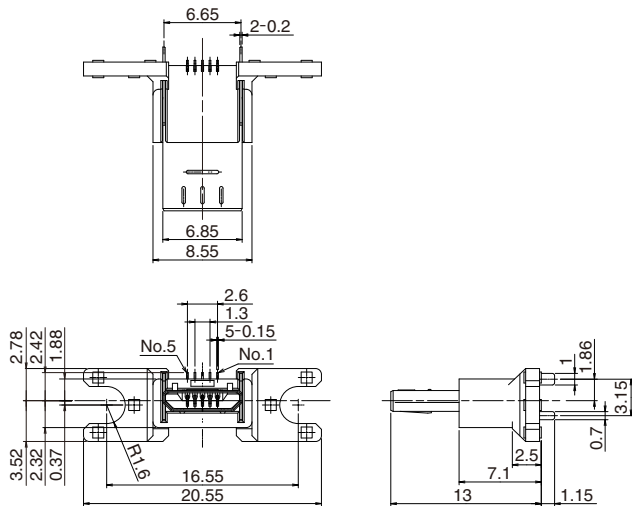
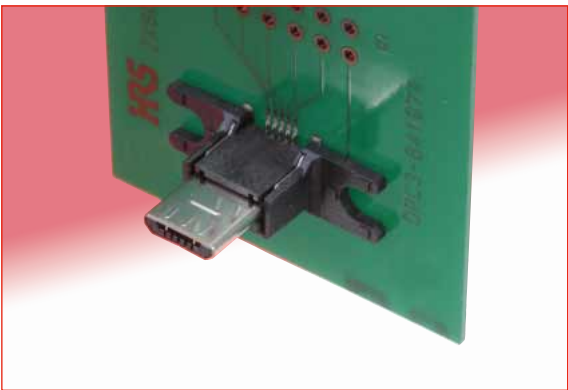
●Micro B, with lock



| Part No.  | HRS No.    | Packaging   |
|-----------|------------|-------------|
| ZX80-B-5S | 242-0017-1 | 100 pcs/pks |

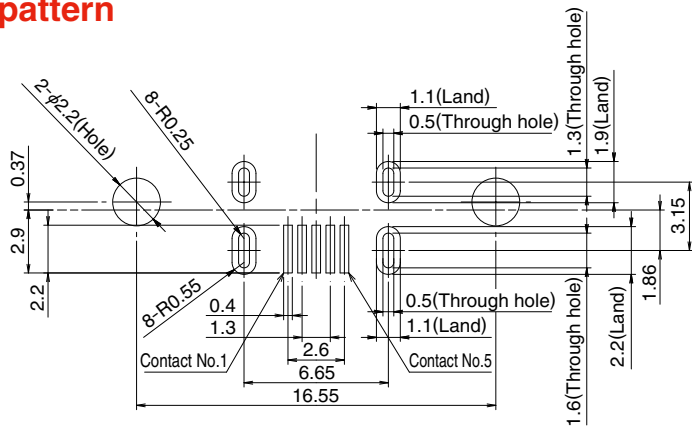
All dimensions: mm

●Micro B, without lock



| Part No.   | HRS No.    | Packaging   |
|------------|------------|-------------|
| ZX80-B-5SA | 242-0019-7 | 100 pcs/pks |

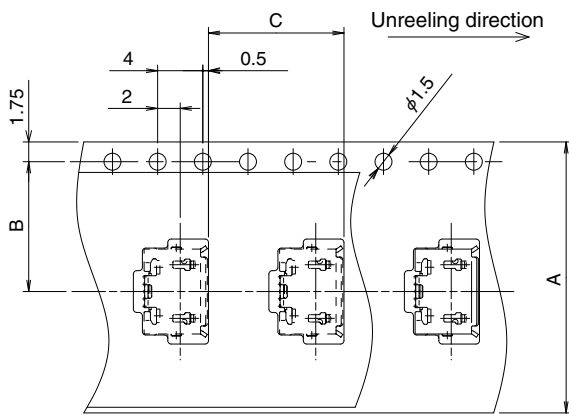
◆PCB mounting pattern



All dimensions: mm

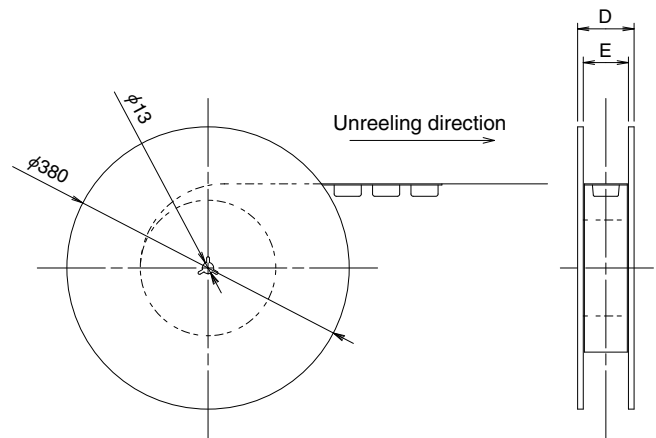
## ◆ Packaging Specifications

### ● Embossed carrier tape dimensions



| Part No.        | A dimension | B dimension |
|-----------------|-------------|-------------|
| ZX62-B-5PA(11)  | 24          | 11.5        |
| ZX62-AB-5PA(11) | 24          | 11.5        |
| ZX62M-B-5P(01)  | 24          | 11.5        |
| Other           | 16          | 7.5         |

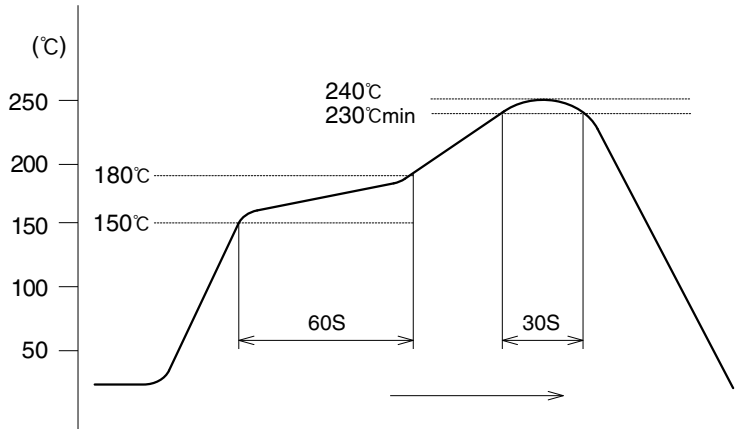
### ● Reel Dimensions



| Part No.        | D dimension | E dimension |
|-----------------|-------------|-------------|
| ZX62-B-5PA(11)  | 30.4        | 24.4        |
| ZX62-AB-5PA(11) | 30.4        | 24.4        |
| ZX62M-B-5P(01)  | 30.4        | 24.4        |
| Other           | 22.4        | 16.4        |

## ◆ Recommended Temperature Profile - Receptacles

### ● Using lead-free solder paste



The temperature profile is based on the left conditions.

In individual applications the actual temperature may vary, depending on solder paste type, volume/thickness and board size/thickness. Contact your solder paste and equipment manufacturer for specific recommendations.

Note 1: Up to 2 cycles of Reflow soldering are possible under the same conditions, provided that there is a return to normal temperature between the first and second cycle.

Note 2: The temperature profile indicates the board surface temperature at the point of contacts with the connector terminals.

## ◆ Precautions

- Exercise care when handling the connectors. Do not subject them to excessive external forces when mating/un-mating.
- Mate and un-mate as intended, holding by the overmolded body, in the correct direction. Do not un-mate by pulling on the cable.
- Some tooling marks may be visible on the surfaces of receptacle (shell/cover). No form/fit or function is affected.
- Appearance of the surface finishes on the receptacles may vary between production runs. No affect on form, fit or function.

MEMO :

Handwriting practice area consisting of 30 horizontal dashed lines.



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