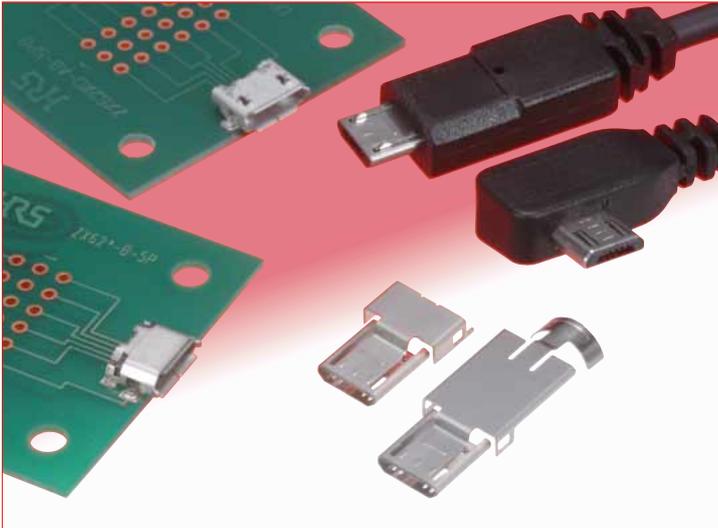


Micro-USB connectors meeting USB 2.0 Standard

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).

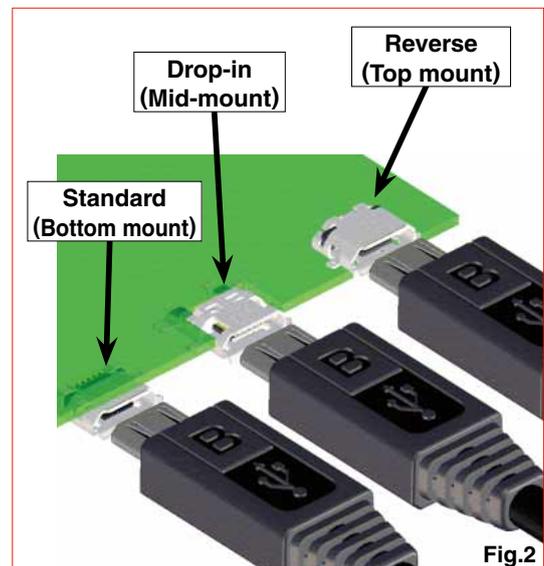


Fig.2

USB 2.0 Hi-Speed (480 Mbps)

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

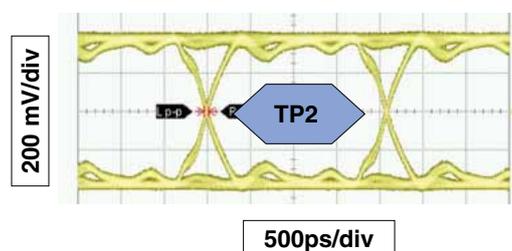


Fig.3

Product Specifications

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

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	————

Product Number Structure

Refer to the chart below when determining the product specifications from the product number.

Please select from the product numbers listed in this catalog when placing orders.

Receptacles

ZX 62 RD - B - 5 P * 8
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

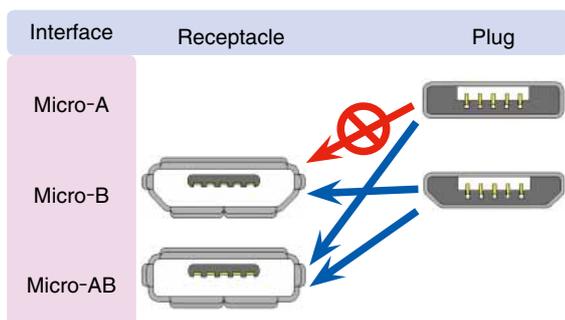
Plugs

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 20's : Straight, PCB wire 40's : Direct wire 60's : Right-angle, PCB wire 80's : Cradle SMT
③ Board mounting style (Receptacles)	Blank Standard (Bottom mount) D Standard (Bottom mount) through hole R Reverse (Top mount) RD Reverse (Top mount) through hole M Drop-in (Mid-mount)
④ Mating side configuration	A Micro-A B Micro-B AB Micro-AB
⑤ Number of contacts	5
⑥ Contact type	P Receptacle- Male S Plug – Female
⑦ Serial No.	
⑧ Shell termination style – Blank Receptacles	SMT 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(33)		4
			SMT + DIP	ZX62D-B-5PA8(30)		4
		Reverse	SMT	ZX62R-B-5P(30)		5
		Drop-in	SMT	ZX62M-B-5P(30)		5
	Micro-AB	Standard	SMT	ZX62-AB-5PA(31)		6
			SMT + DIP	ZX62D-AB-5P8(30)		6
		Reverse	SMT	ZX62R-AB-5P(30)		7
			SMT + DIP	ZX62RD-AB-5P8(30)		7
	P l u g s	Micro-B	Direct wire soldering	Assembly (insulator/contacts/lock) : ZX40-B-5S-UNIT(31) Cover-top : ZX40-B-SLDA Cover-bottom : ZX40-SLDB		9 and 10
			PCB wire soldering (straight, through hole)	Assembly (insulator/contacts/lock) : ZX20-B-5S-UNIT(30) Cover : ZX20-B-SLDC		11
PCB wire soldering (SMT)			Assembly (insulator/contacts/lock) : ZX64-B-5S-UNIT(31) Cover-top : ZX64-B-SLDA Cover- bottom : ZX64-SLDB		12 and 13	
PCB wire soldering (SMT)			Assembly (insulator/contacts/lock) : ZX64-B-5S-UNIT(31) Cover : ZX64-B-SLDC		12 and 13	
Micro-A		Direct wire soldering	Assembly (insulator/contacts/lock) : ZX40-A-5S-UNIT(30) Cover-top : ZX40-A-SLDA Cover- bottom : ZX40-SLDB		14 and 15	
C r a d l e s	Micro-B	SMT + DIP	ZX80-B-5S(30)	With lock	16	
			ZX80-B-5SA(30)	Without lock	16	

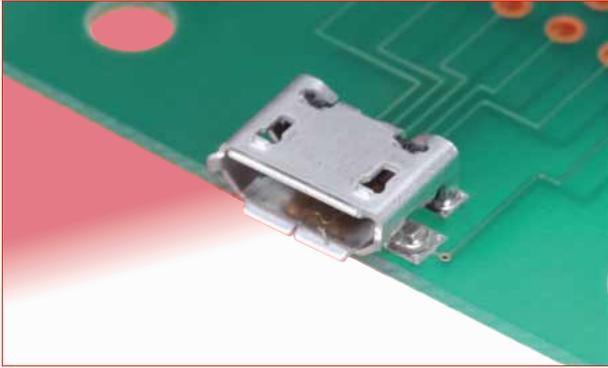
Note : 1 Part numbers in the Plugs section of the above table list the Assembly (insulator/contacts/locks) and the corresponding Shields/Covers.

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.

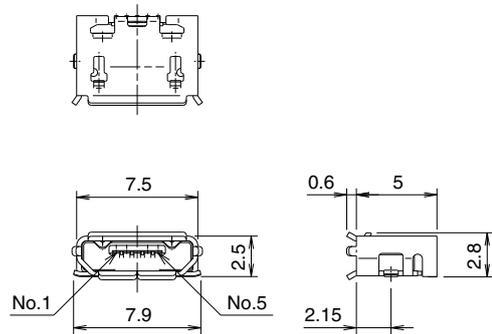
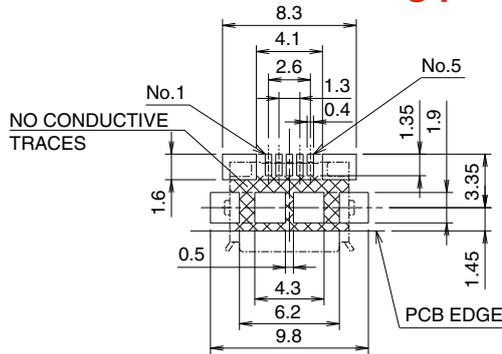
■ Receptacles

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



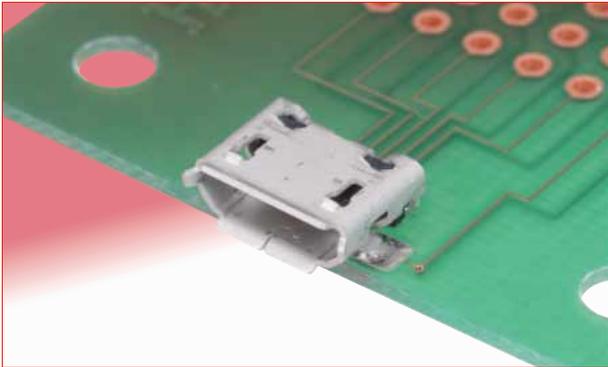
Part No.	HRS No.	Packaging
ZX62-B-5PA(33)	242-0033-8 33	3,500pcs/reel

◆ Recommended PCB mounting pattern



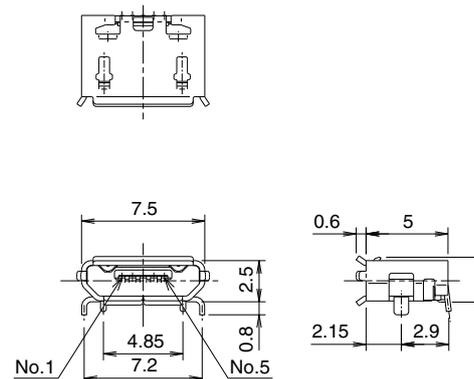
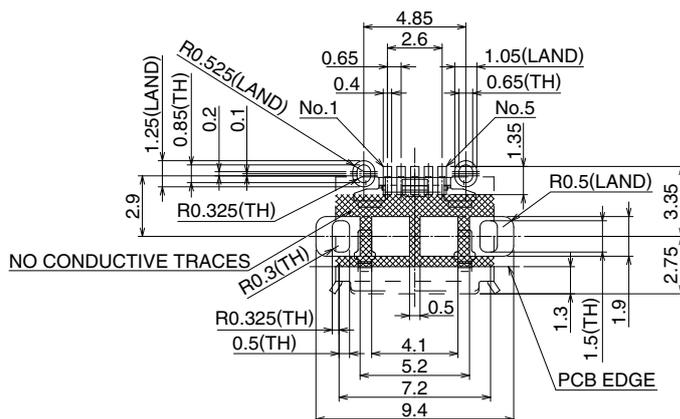
All dimensions : mm

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



Part No.	HRS No.	Packaging
ZX62D-B-5PA8(30)	242-0056-3 30	2,000pcs/reel

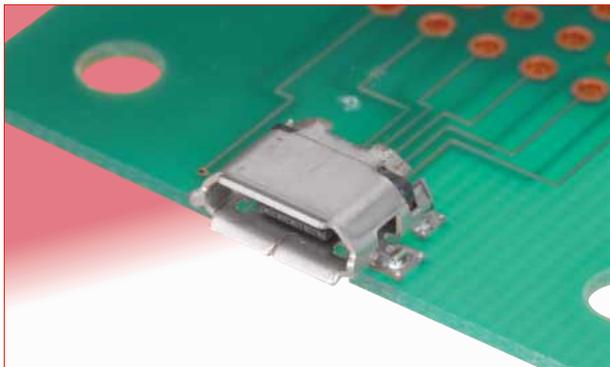
◆ Recommended PCB mounting pattern



All dimensions : mm

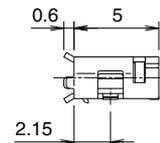
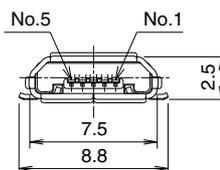
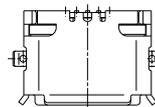
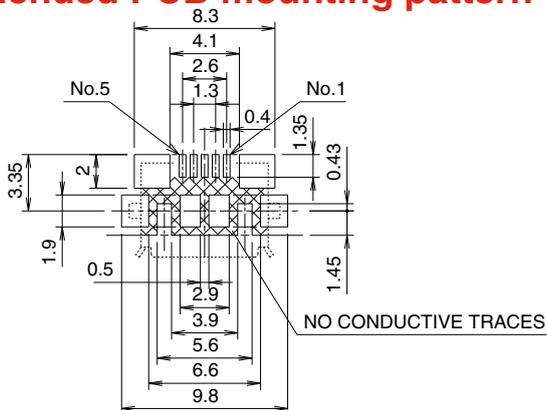
■ Receptacles

● Micro B - Reverse (Top mount) Shell SMT



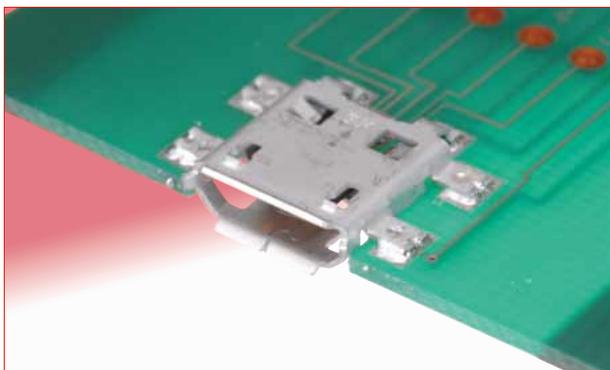
Part No.	HRS No.	Packaging
ZX62R-B-5P(30)	242-0028-8 30	2,000pcs/reel

◆ Recommended PCB mounting pattern



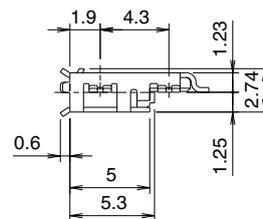
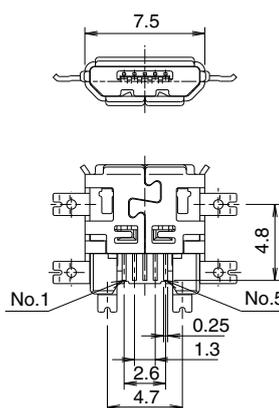
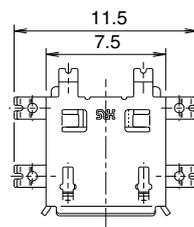
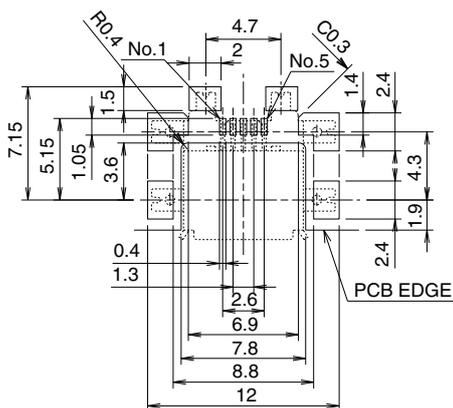
All dimensions : mm

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



Part No.	HRS No.	Packaging
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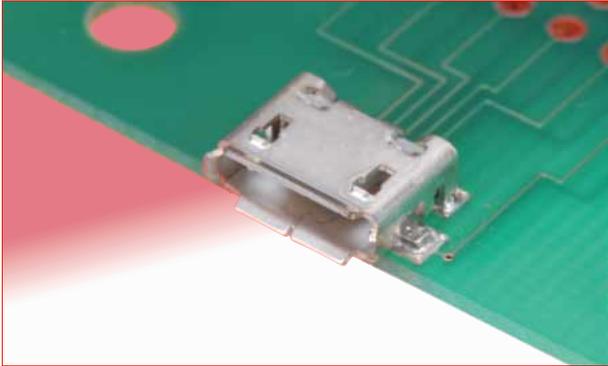
◆ Recommended PCB mounting pattern



All dimensions : mm

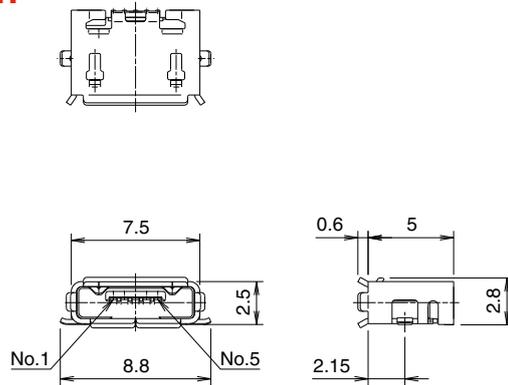
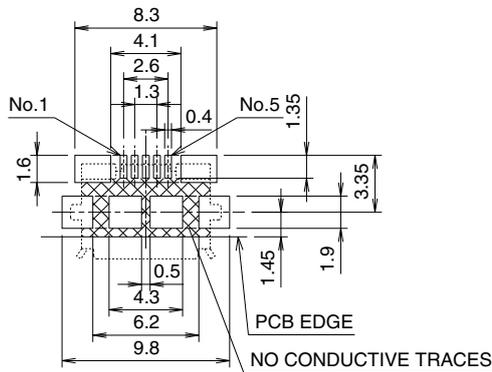
■ Receptacles

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



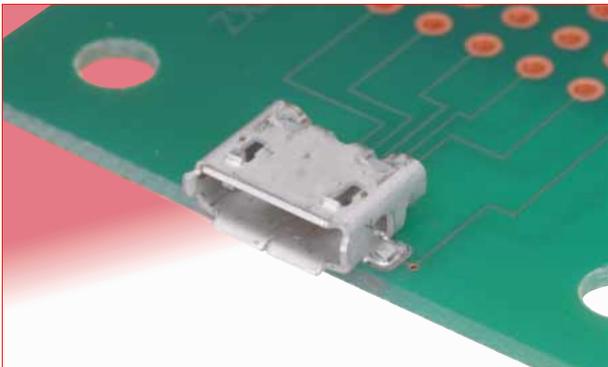
Part No.	HRS No.	Packaging
ZX62-AB-5PA(31)	242-0045-7 31	3,500pcs/reel

◆ Recommended PCB mounting pattern



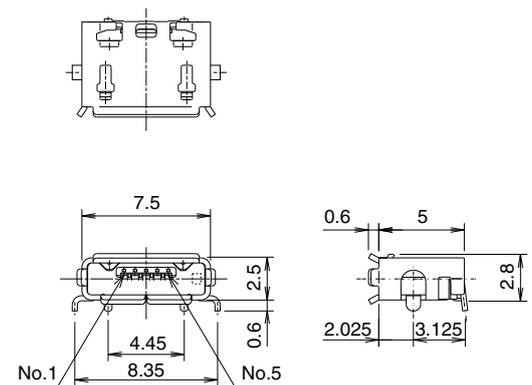
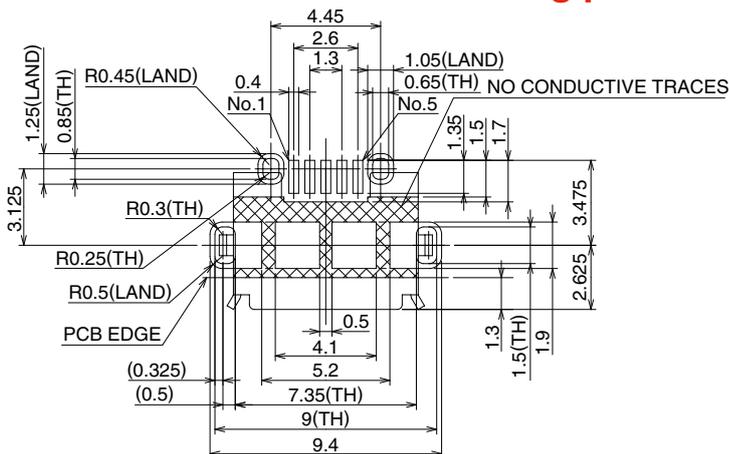
All dimensions : mm

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



Part No.	HRS No.	Packaging
ZX62D-AB-5P8(30)	242-0027-5 30	2,000pcs/reel

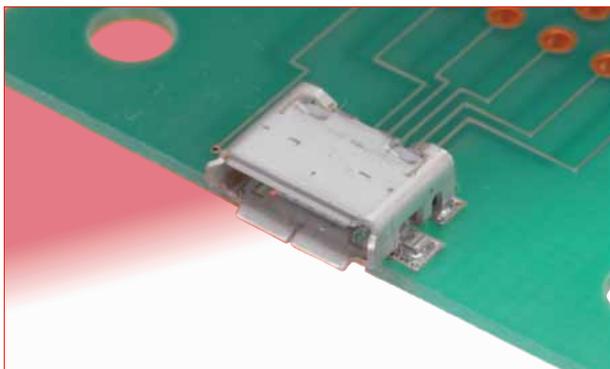
◆ Recommended PCB mounting pattern



All dimensions : mm

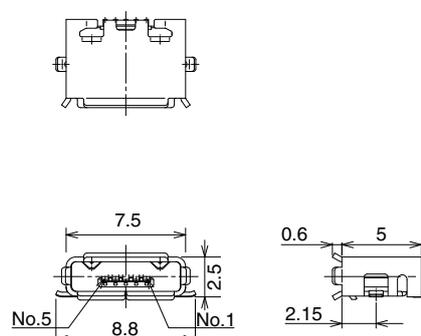
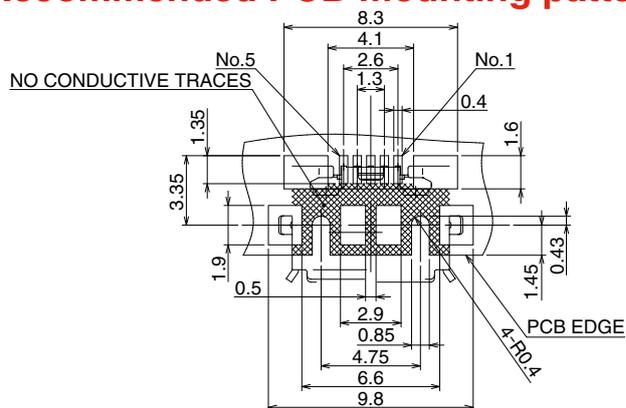
■ Receptacles

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



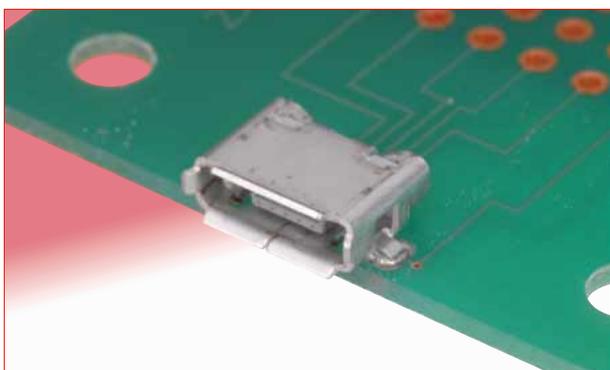
Part No.	HRS No.	Packaging
ZX62R-AB-5P(30)	242-0035-3 30	2,000pcs/reel

◆ Recommended PCB mounting pattern



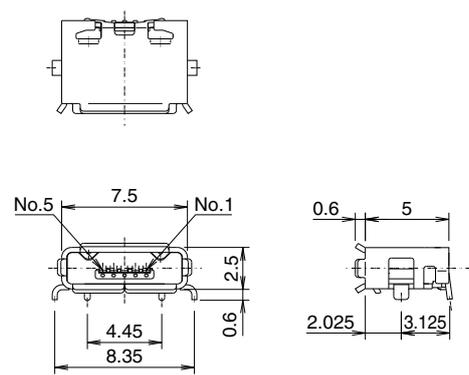
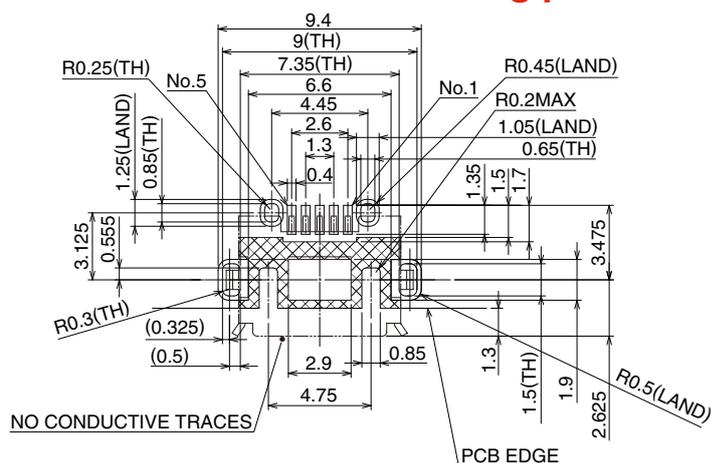
All dimensions : mm

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

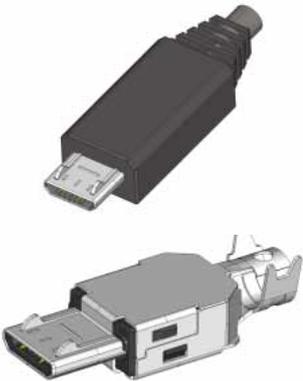
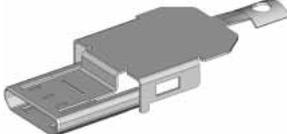
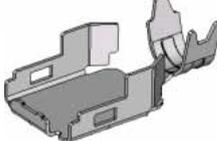
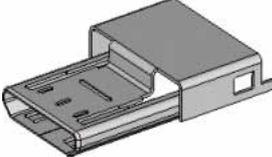
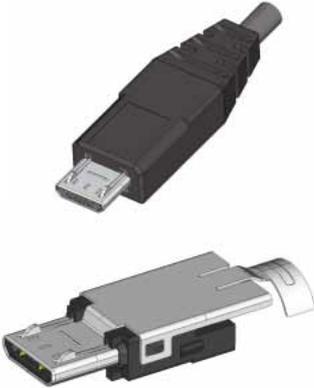
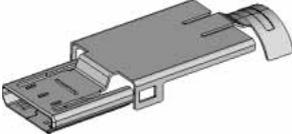
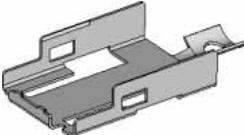


Part No.	HRS No.	Packaging
ZX62RD-AB-5P8(30)	242-0025-0 30	2,000pcs/reel

◆ Recommended PCB mounting pattern



All dimensions : mm

Plugs – assembled (not-terminated, without overmold)	Components
<p data-bbox="240 197 695 232">ZX40 - Direct wire soldering</p> 	 <p data-bbox="1177 271 1414 306">ZX40-*SLDA</p> <p data-bbox="1177 309 1267 331">Cover-top</p>  <p data-bbox="1177 398 1414 434">ZX40-*5S-UNIT</p> <p data-bbox="1177 436 1366 506">Assembly (insulator/ contacts/lock) *No PCB required</p>  <p data-bbox="1177 544 1414 580">ZX40-SLDB</p> <p data-bbox="1177 582 1302 604">Cover-bottom</p>
<p data-bbox="240 667 695 703">ZX20 - PCB wire soldering</p> 	 <p data-bbox="1177 768 1414 804">ZX20-*SLDC</p> <p data-bbox="1177 806 1235 828">Cover</p>  <p data-bbox="1177 913 1414 949">ZX20-*5S-UNIT</p> <p data-bbox="1177 952 1414 1043">Assembly (insulator/ contacts/lock) *Vertical through hole PCB termination</p>
<p data-bbox="240 1075 695 1111">ZX64 - PCB wire soldering</p> 	 <p data-bbox="1177 1153 1414 1189">ZX64-*SLDA</p> <p data-bbox="1177 1191 1267 1214">Cover-top</p>  <p data-bbox="1177 1283 1414 1319">ZX64-*5S-UNIT</p> <p data-bbox="1177 1321 1414 1413">Assembly (insulator/ contacts/lock) *Right angle through hole PCB termination</p>  <p data-bbox="1177 1473 1414 1509">ZX64-SLDB</p> <p data-bbox="1177 1512 1302 1534">Cover-bottom</p>

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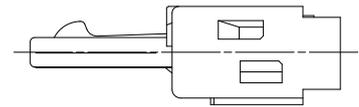
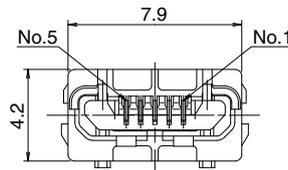
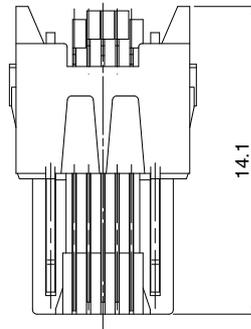
■ Plugs

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



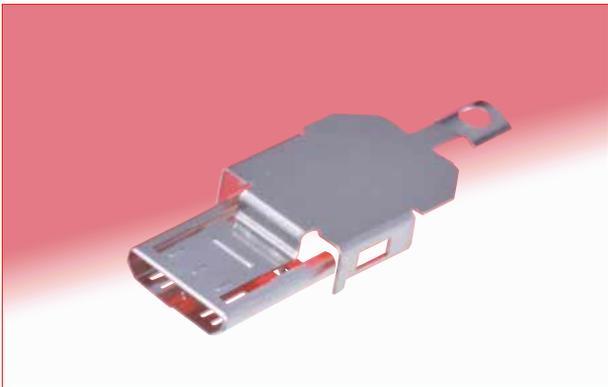
Part No.	HRS No.	Packaging
ZX40-B-5S-UNIT(31)	242-0002-4 31	1 piece

Contact HRS for Cable Termination Procedure Manual.

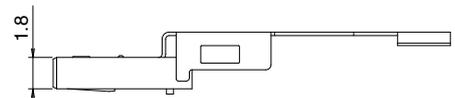
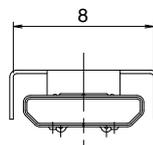
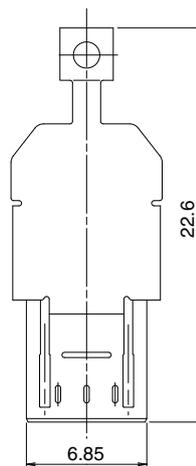


All dimensions : mm

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



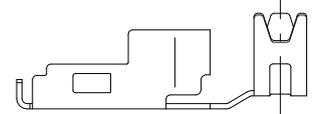
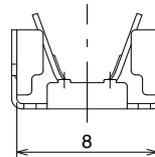
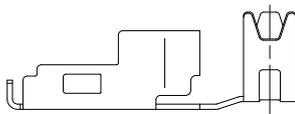
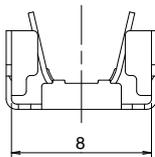
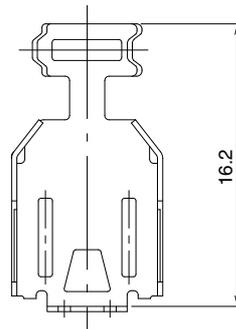
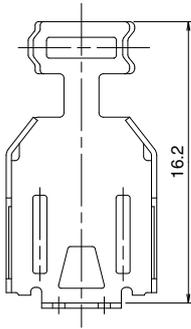
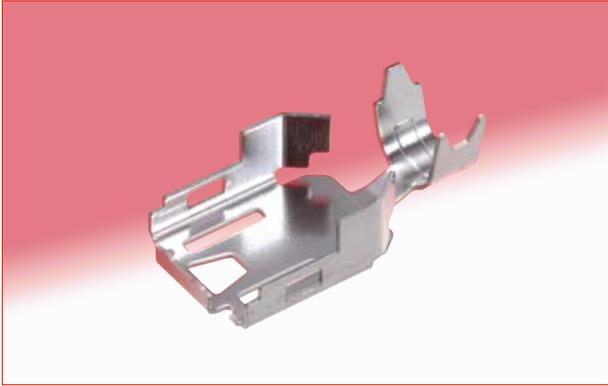
Part No.	HRS No.	Packaging
ZX40-B-SLDA	242-0003-7	4,000pcs/reel



All dimensions : mm

■ Plugs

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



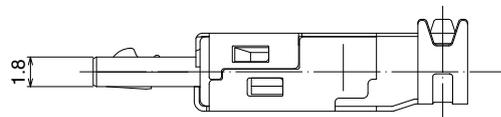
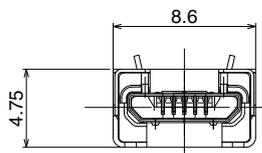
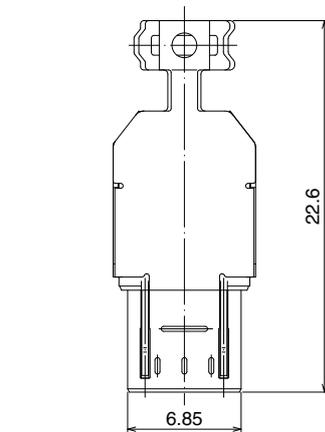
All dimensions : mm

ZX40-SLDB

ZX40-SLDB(3.3)

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

● Assembled



All dimensions : mm

Plugs

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

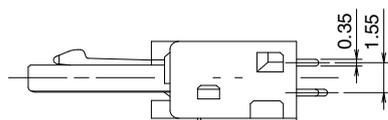
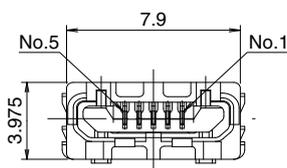
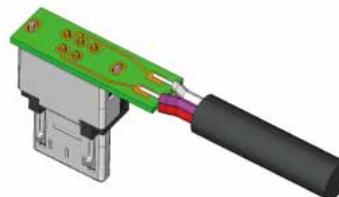
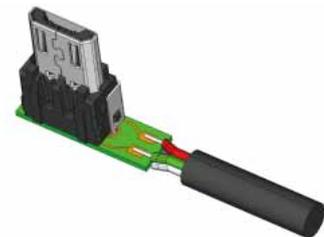
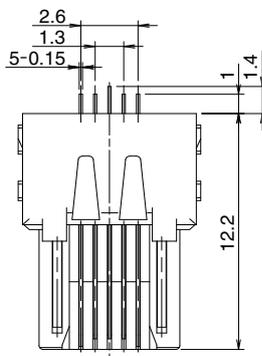
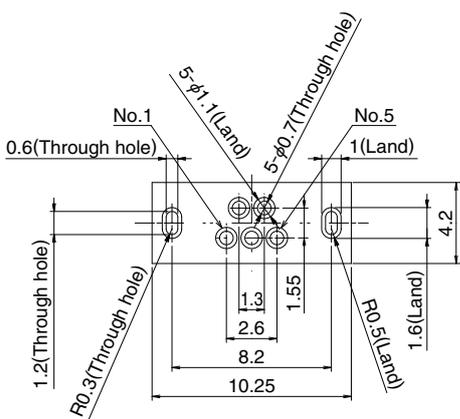


Part No.	HRS No.	Packaging
ZX20-B-5S-UNIT(30)	242-0012-8 30	4,000pcs/pks

Contact HRS for Cable Termination Procedure Manual.

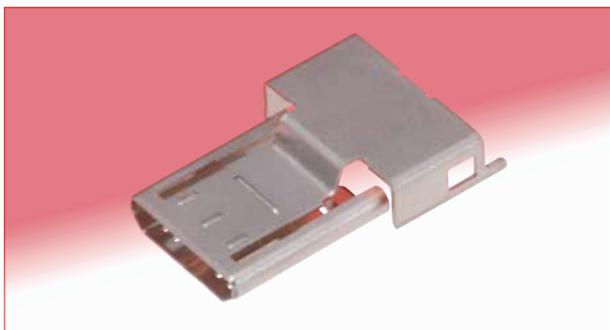
PCB mounting pattern

*PCB required (not supplied)
Max. thickness: 0.6mm



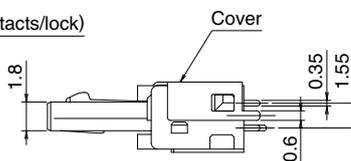
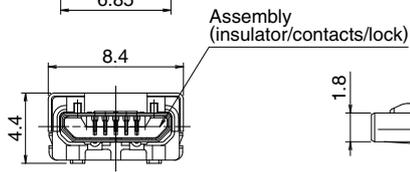
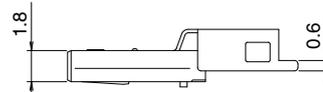
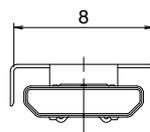
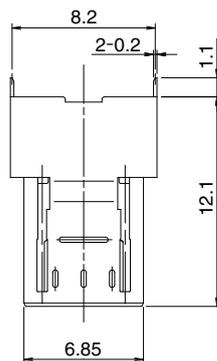
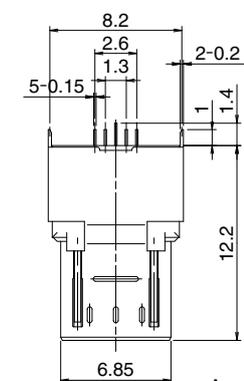
All dimensions : mm

● Micro B - Component, Cover - through hole



Part No.	HRS No.	Packaging
ZX20-B-SLDC	242-0022-1	4,000pcs/reel

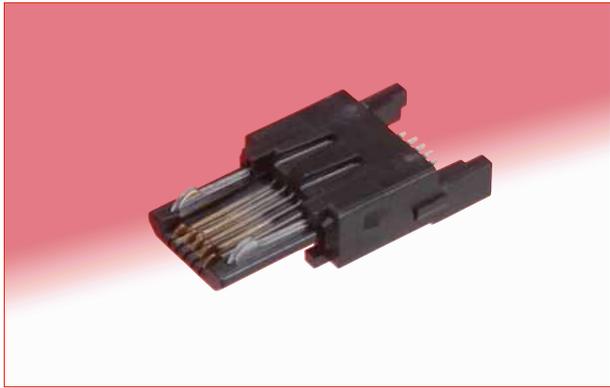
● Assembled



All dimensions : mm

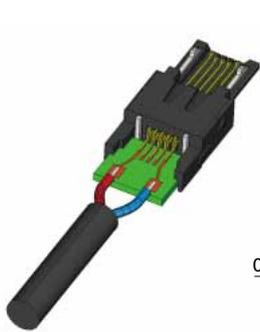
Plugs

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

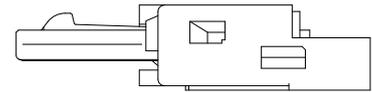
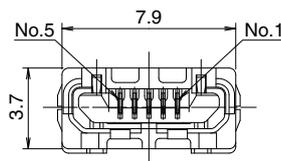
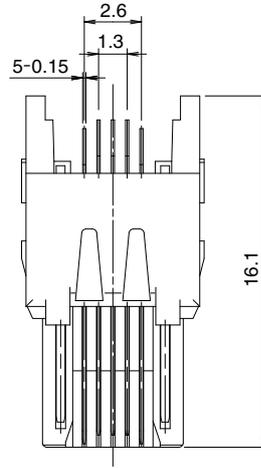
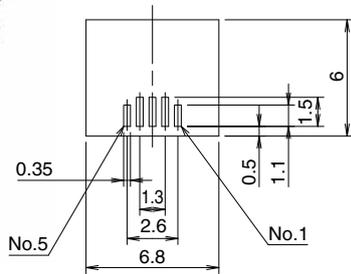


Part No.	HRS No.	Packaging
ZX64-B-5S-UNIT(31)	242-0009-3 31	1 piece

Contact HRS for Cable Termination Procedure Manual.

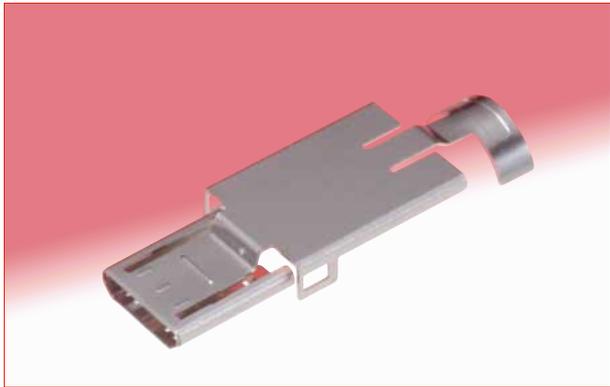


PCB mounting pattern
*PCB required (not supplied)
Max. thickness: 1.0mm

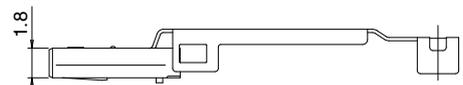
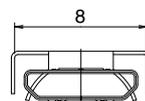
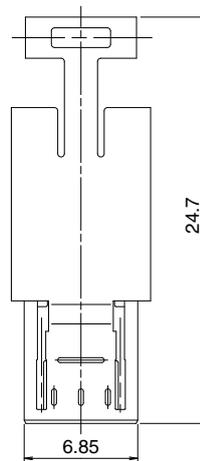


All dimensions : mm

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



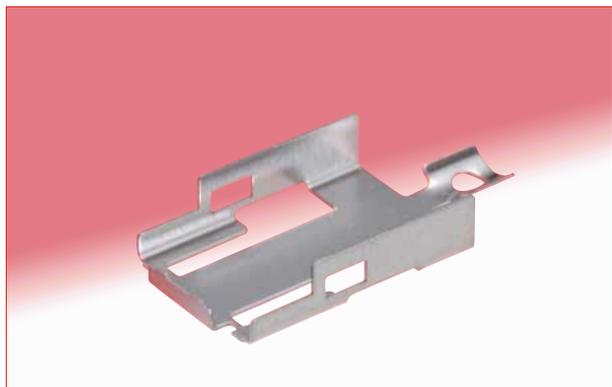
Part No.	HRS No.	Packaging
ZX64-B-SLDA	242-0013-0	4,000pcs/reel



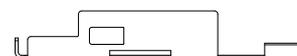
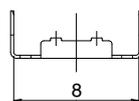
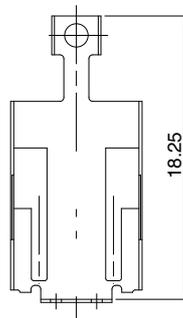
All dimensions : mm

Plugs

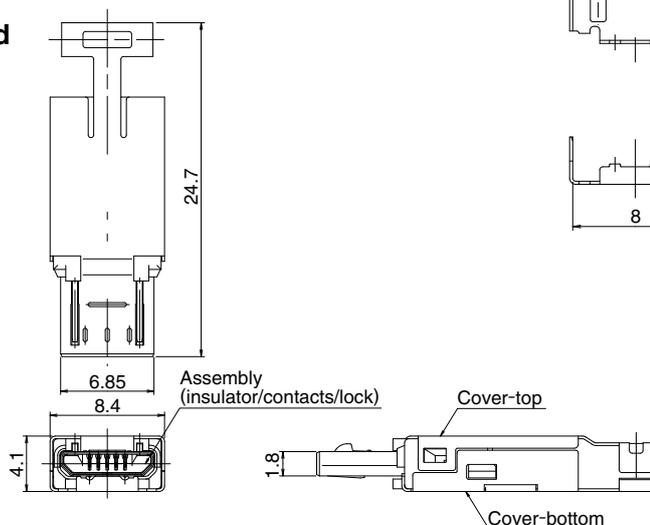
● Micro B - Component, Cover-bottom - Right angle SMT



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



● Assembled

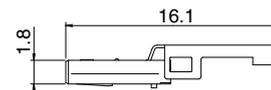
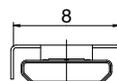
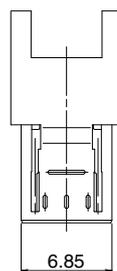


All dimensions : mm

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

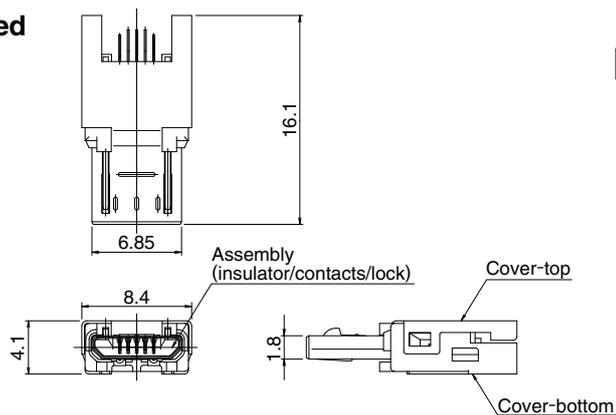


Part No.	HRS No.	Packaging
ZX64-B-SLDC	242-0018-4	4,000pcs/reel



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

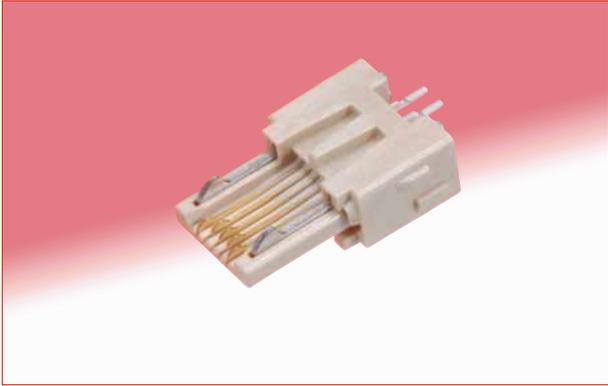
● Assembled



All dimensions : mm

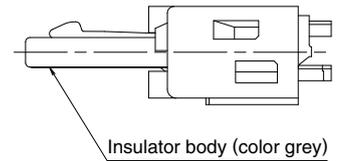
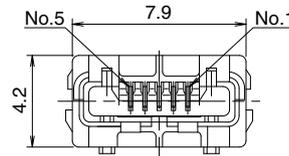
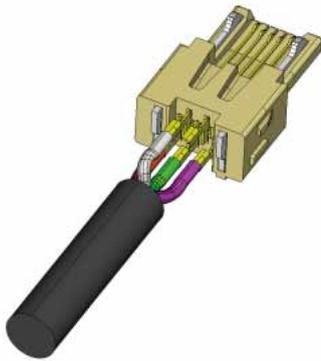
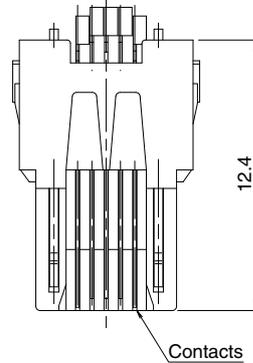
■ Plugs

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



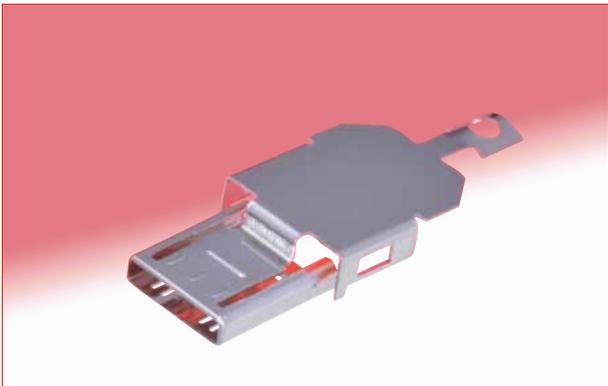
Part No.	HRS No.	Packaging
ZX40-A-5S-UNIT(30)	242-0010-2 30	1 piece

Contact HRS for Cable Termination Procedure Manual.

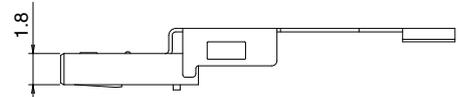
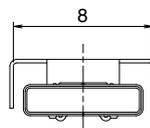
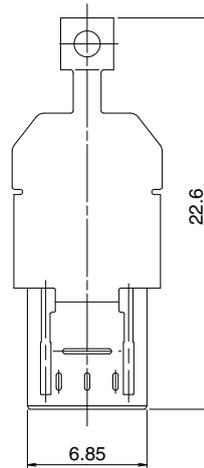


All dimensions : mm

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



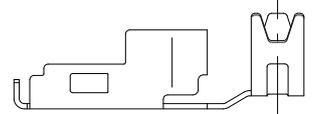
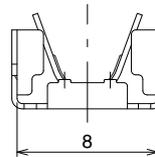
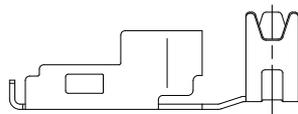
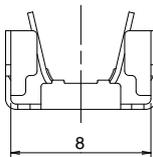
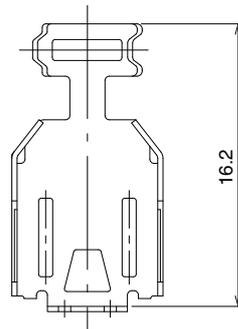
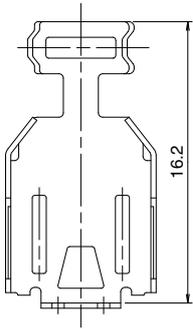
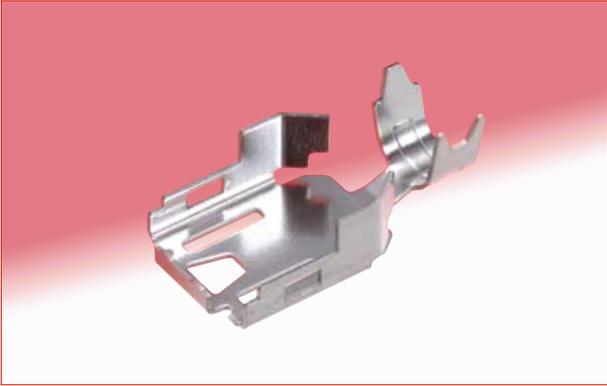
Part No.	HRS No.	Packaging
ZX40-A-SLDA	242-0011-5	4,000pcs/reel



All dimensions : mm

Plugs

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



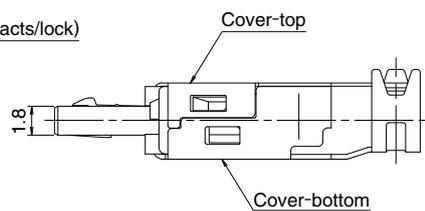
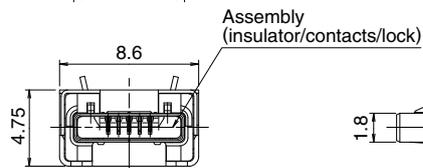
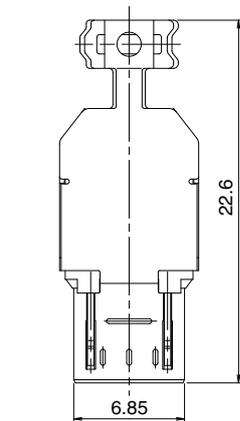
ZX40-SLDB

ZX40-SLDB(3.3)

All dimensions : mm

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

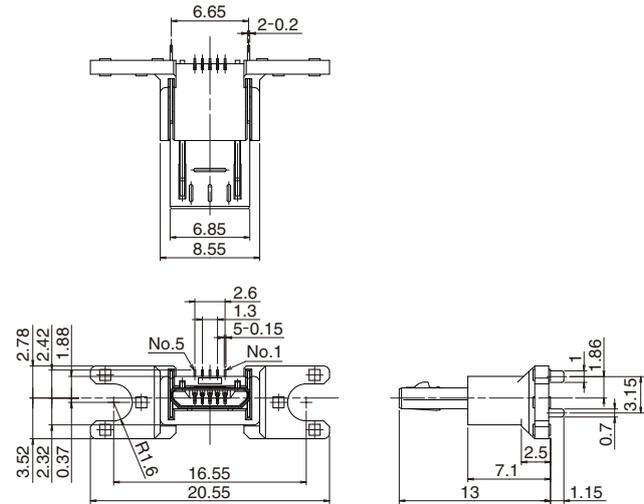
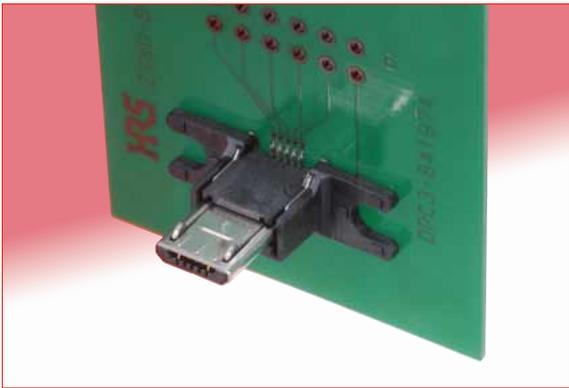
● Assembled



All dimensions : mm

■ Plug-Vertical, cradle mount, Shell through hole

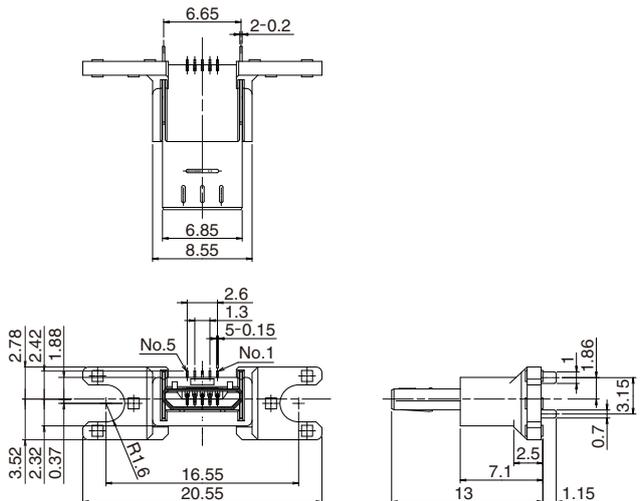
● Micro B, with lock



Part No.	HRS No.	Packaging
ZX80-B-5S(30)	242-0017-1 30	100pcs/pks

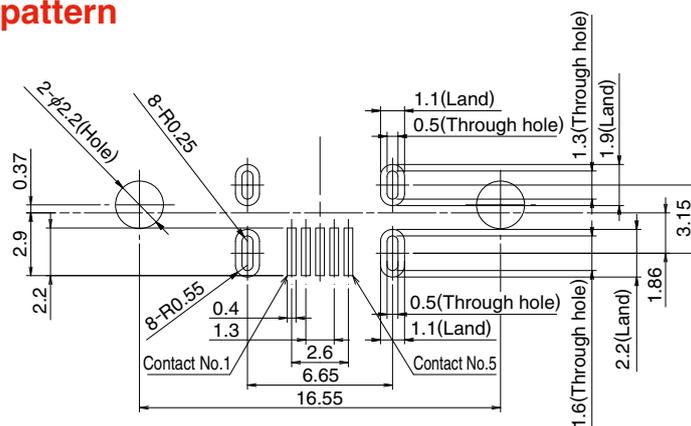
All dimensions : mm

● Micro B, without lock



Part No.	HRS No.	Packaging
ZX80-B-5SA(30)	242-0019-7 30	100pcs/pks

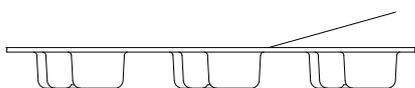
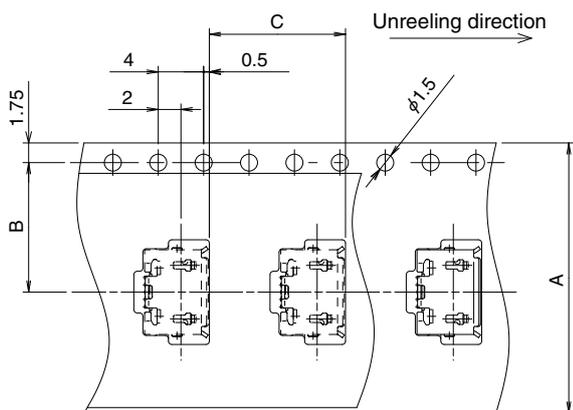
◆ PCB mounting pattern



All dimensions : mm

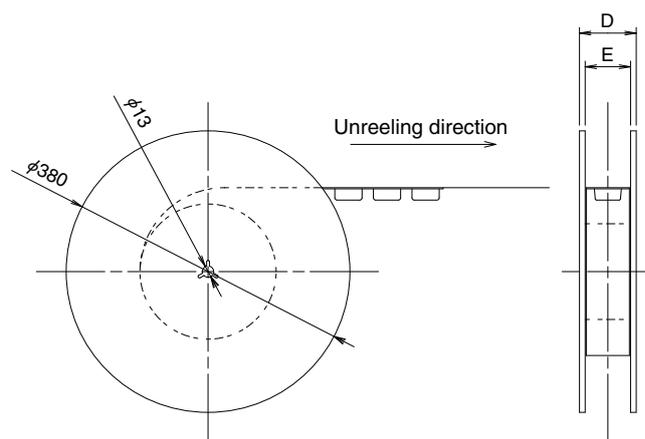
◆ Packaging Specifications

● Embossed carrier tape dimensions



Part No.	A dimension	B dimension
ZX62-B-5PA(33)	24	11.5
ZX62-AB-5PA(31)	24	11.5
ZX62M-B-5P(30)	24	11.5
Other	16	7.5

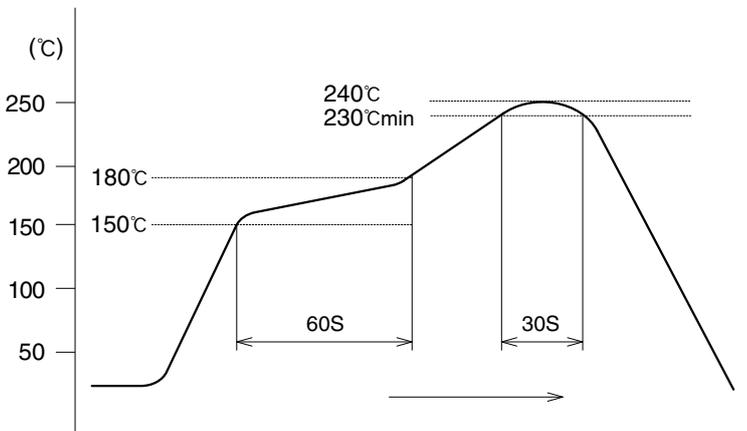
● Reel Dimensions



Part No.	D dimension	E dimension
ZX62-B-5PA(33)	30.4	24.4
ZX62-AB-5PA(31)	30.4	24.4
ZX62M-B-5P(30)	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

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

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