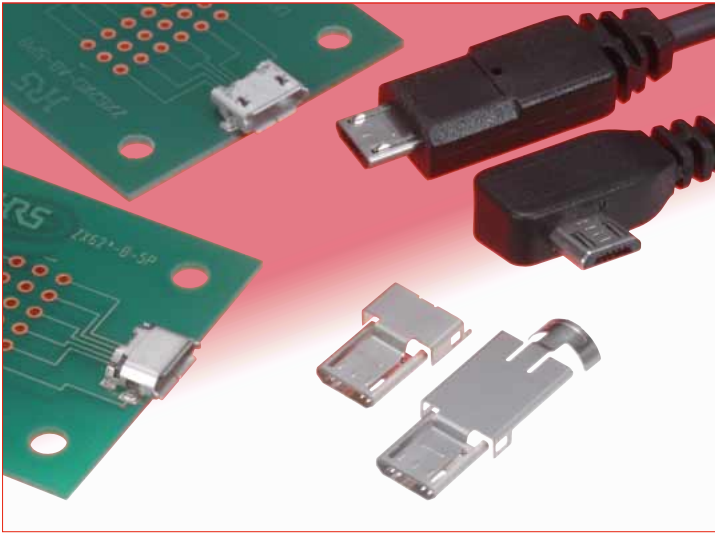


Micro-USB connectors meeting USB 2.0 Standard

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).

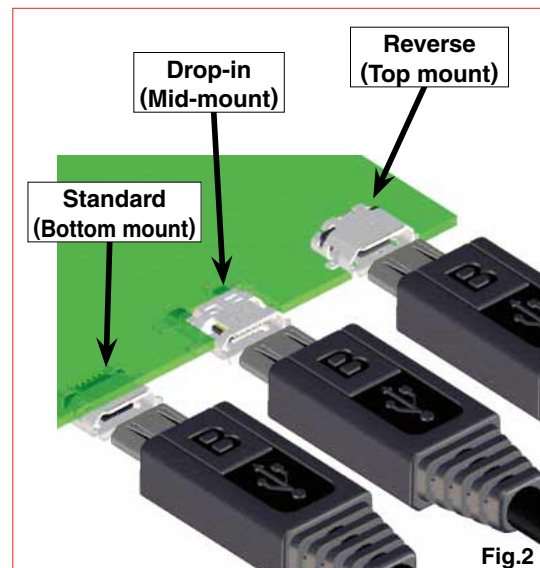


Fig.2

USB 2.0 Hi-Speed (480 Mbps)

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

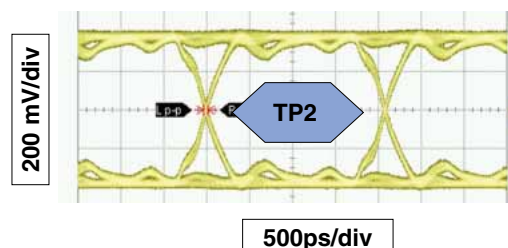


Fig.3

■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

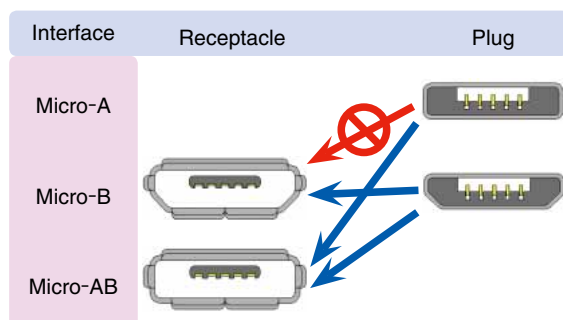
●Plugs

ZX 40 - B - 5 S * - UNIT
 ① ② ④ ⑤ ⑥ ⑦ ⑨










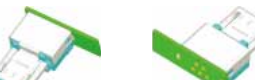





ZX 40 - B - SLDA
 ① ② ④ ⑨

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	SMT
⑧ Receptacles	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

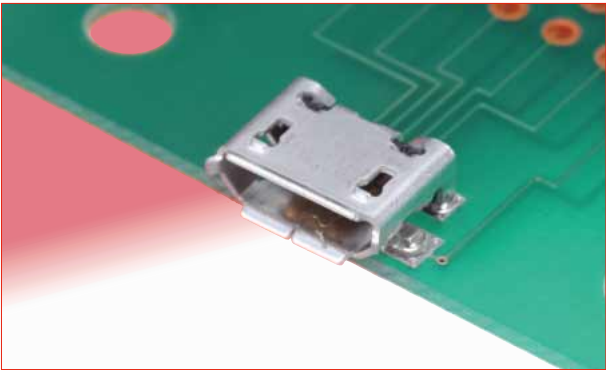
Note : 1 Part numbers in the Plugs section of the above table list the Assembly (insulator/contacts/locks) and the corresponding Shields/Covers.

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.

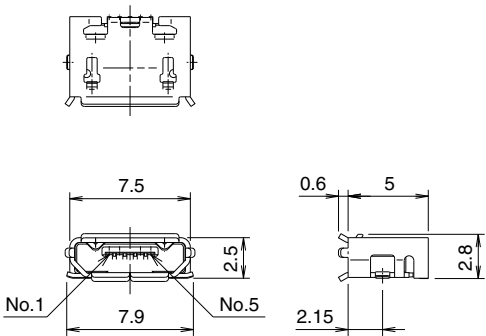
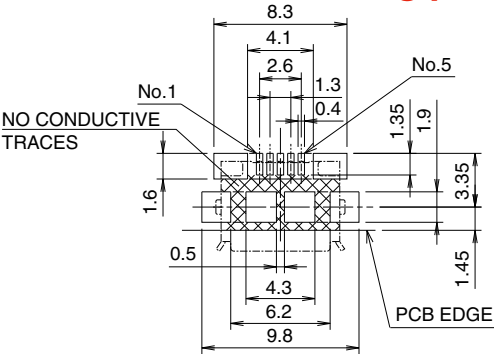
■Receptacles

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



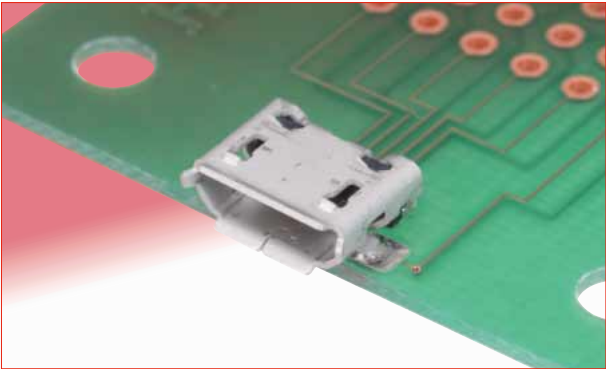
Part No.	HRS No.	Packaging
ZX62-B-5PA(33)	242-0033-8 33	3,500pcs/reel

◆Recommended PCB mounting pattern



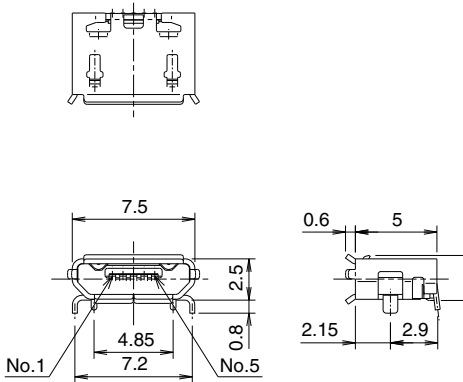
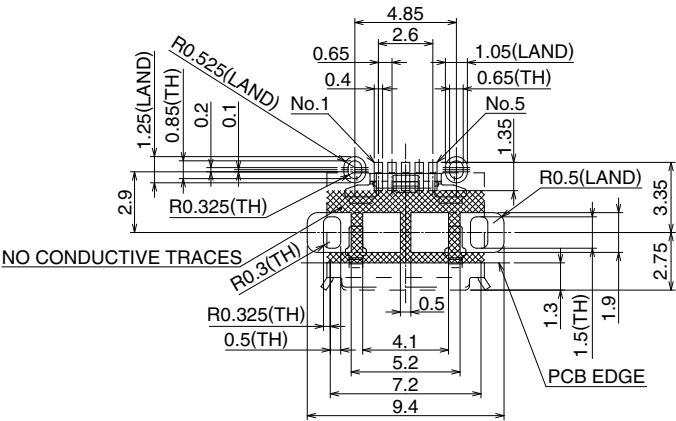
All dimensions : mm

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



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

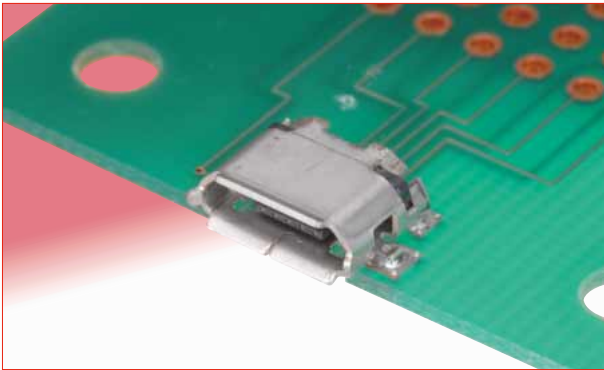
◆Recommended PCB mounting pattern



All dimensions : mm

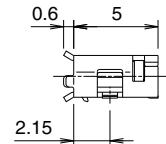
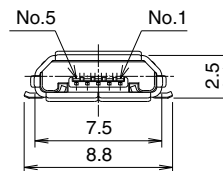
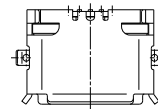
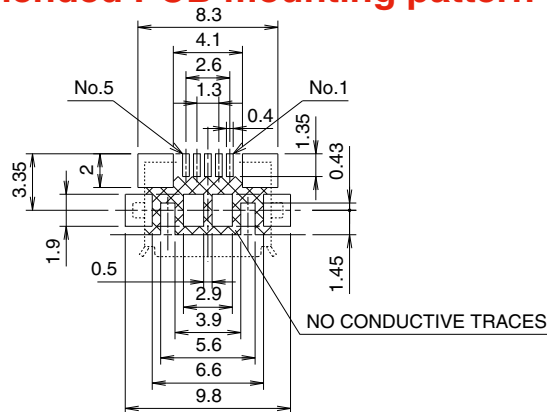
■ Receptacles

● Micro B - Reverse (Top mount) Shell SMT



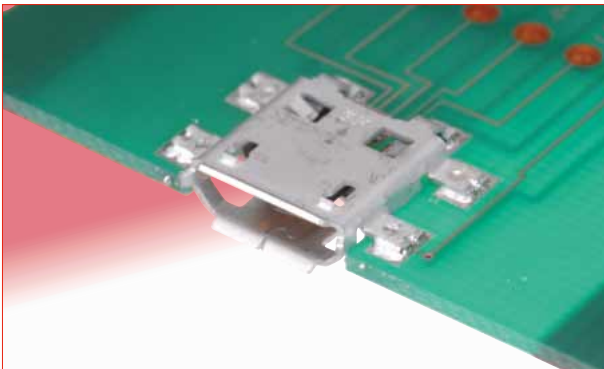
Part No.	HRS No.	Packaging
ZX62R-B-5P(30)	242-0028-8 30	2,000pcs/reel

◆ Recommended PCB mounting pattern

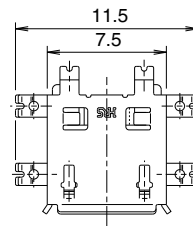


All dimensions : mm

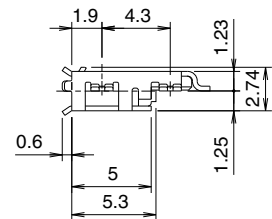
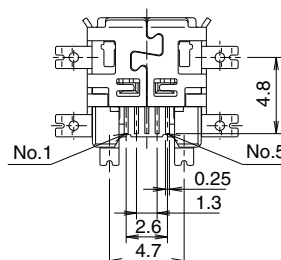
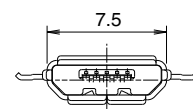
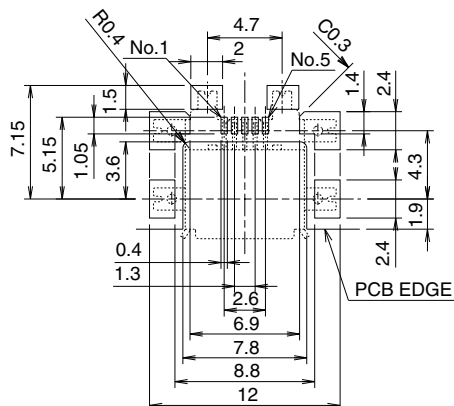
● Micro B - Drop-in (Mid-mount), Shell SMT



Part No.	HRS No.	Packaging
ZX62M-B-5P(30)	242-0024-7 30	1,500pcs/reel



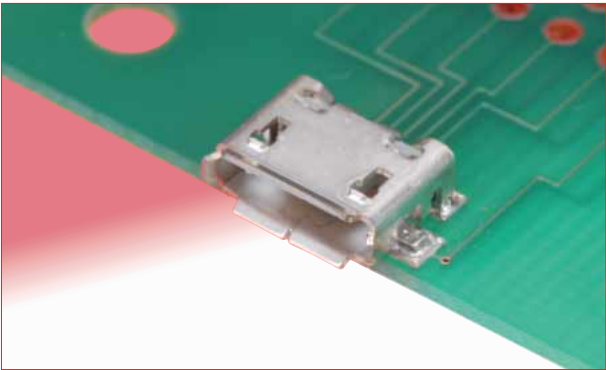
◆ Recommended PCB mounting pattern



All dimensions : mm

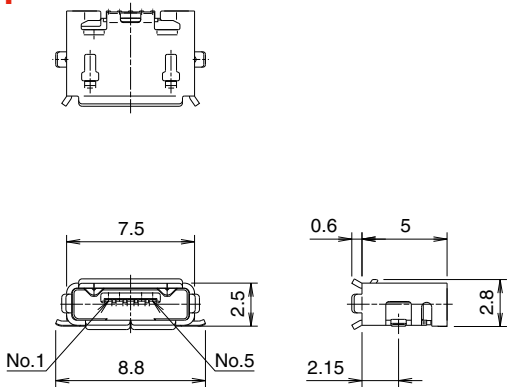
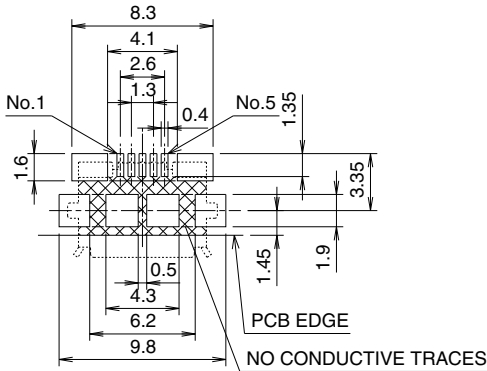
■Receptacles

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



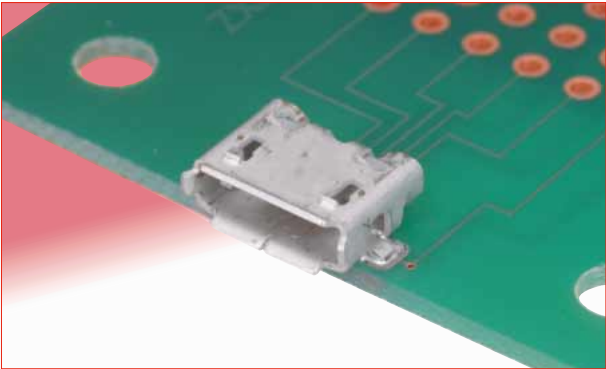
Part No.	HRS No.	Packaging
ZX62-AB-5PA(31)	242-0045-7 31	3,500pcs/reel

◆Recommended PCB mounting pattern



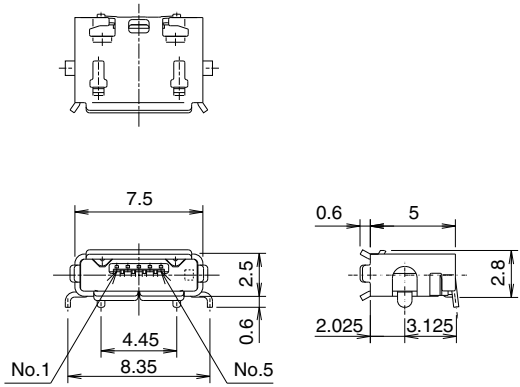
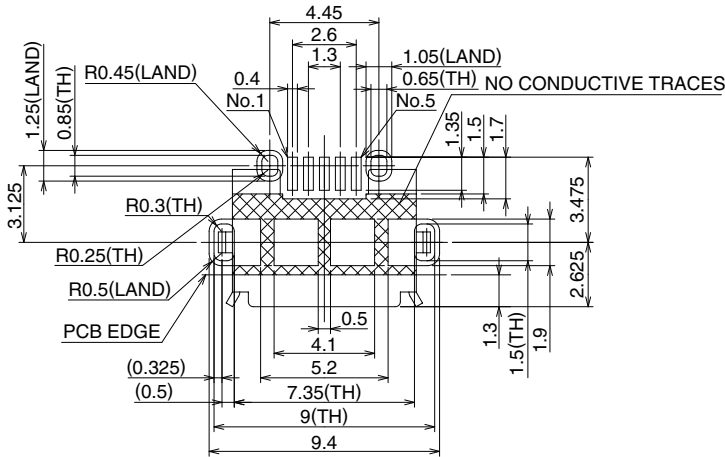
All dimensions : mm

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



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

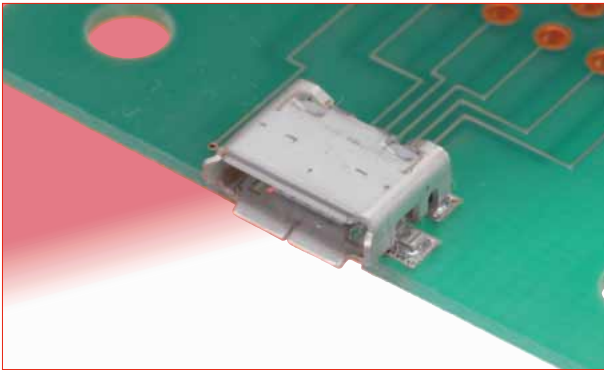
◆Recommended PCB mounting pattern



All dimensions : mm

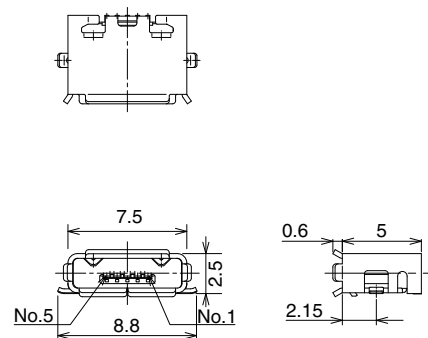
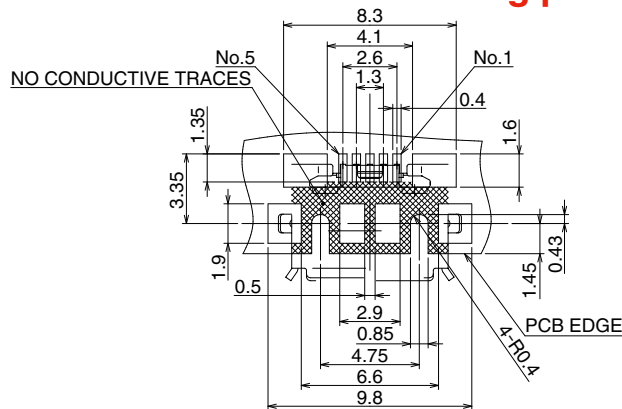
■ Receptacles

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



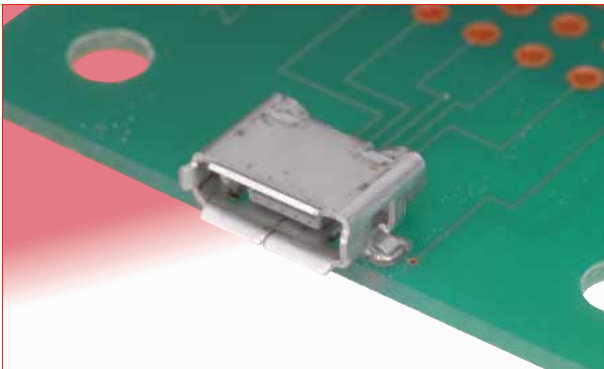
Part No.	HRS No.	Packaging
ZX62R-AB-5P(30)	242-0035-3 30	2,000pcs/reel

◆ Recommended PCB mounting pattern



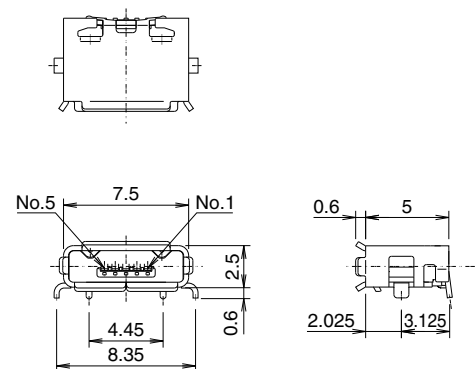
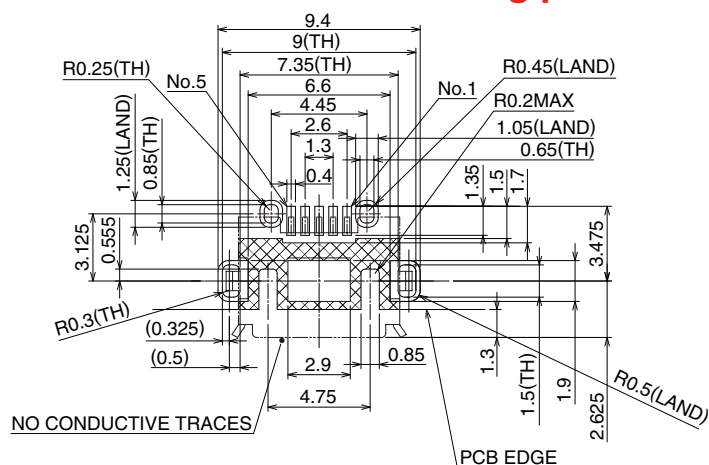
All dimensions : mm

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

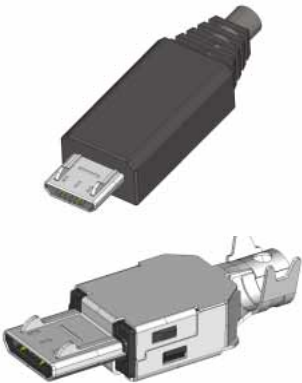
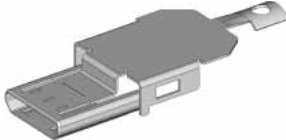

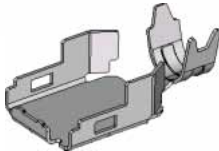

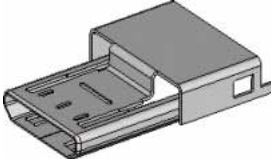

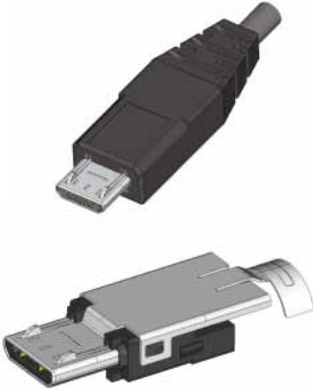
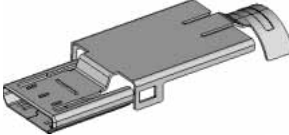

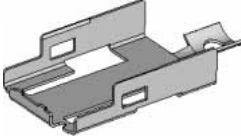


Part No.	HRS No.	Packaging
ZX62RD-AB-5P8(30)	242-0025-0 30	2,000pcs/reel

◆ Recommended PCB mounting pattern



All dimensions : mm

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

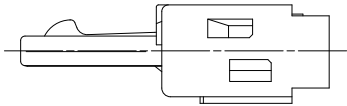
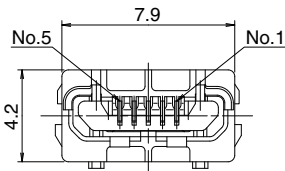
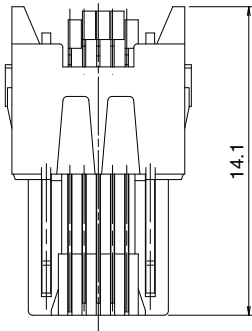
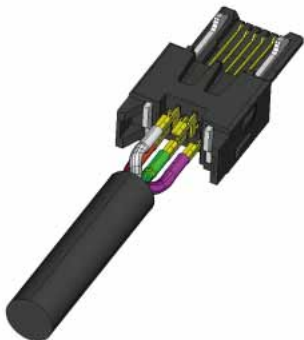
■Plugs

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



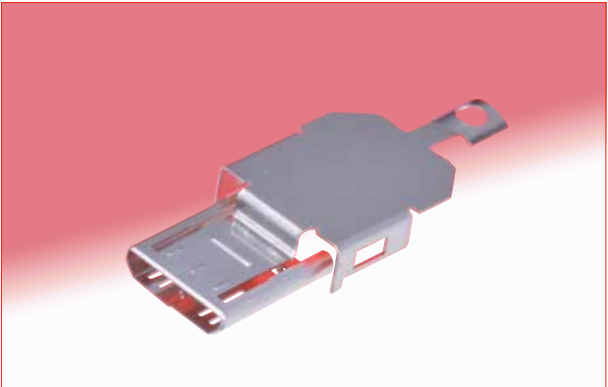
Part No.	HRS No.	Packaging
ZX40-B-5S-UNIT(31)	242-0002-4 31	1 piece

Contact HRS for Cable Termination Procedure Manual.

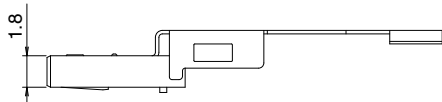
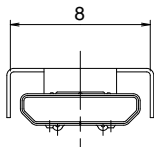
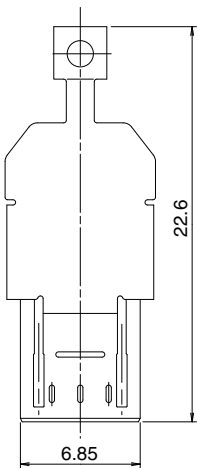


All dimensions : mm

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



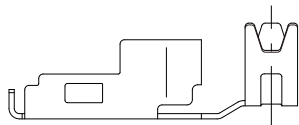
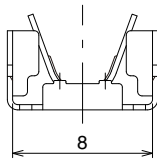
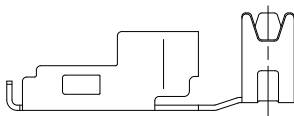
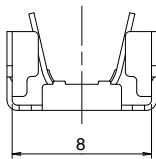
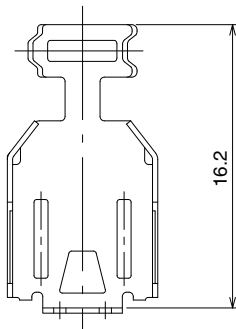
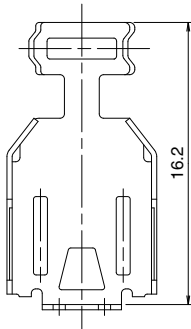
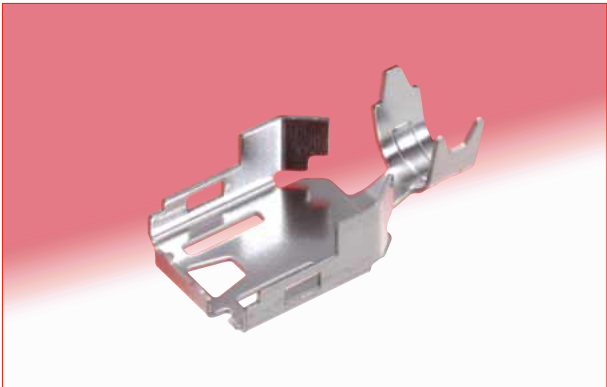
Part No.	HRS No.	Packaging
ZX40-B-SLDA	242-0003-7	4,000pcs/reel



All dimensions : mm

■Plugs

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



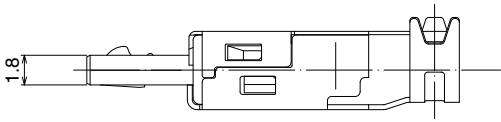
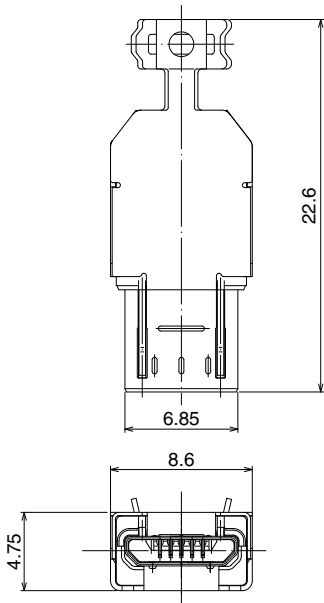
All dimensions : mm

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

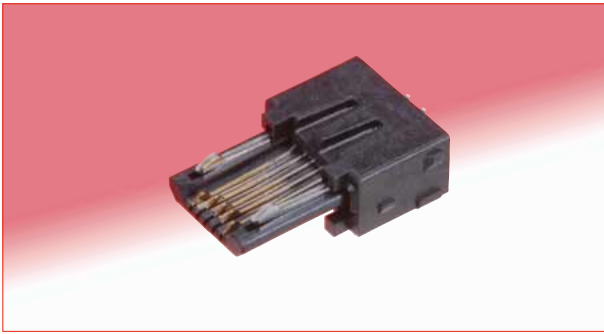
●Assembled



All dimensions : mm

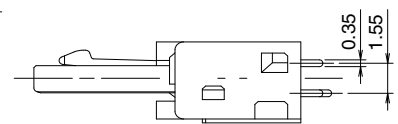
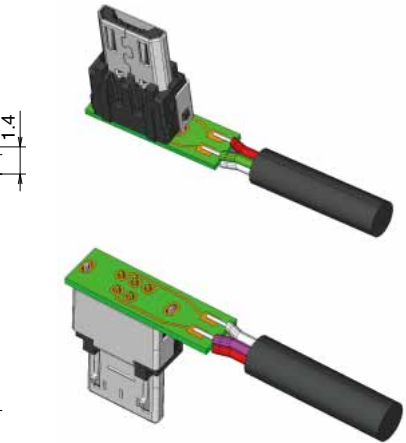
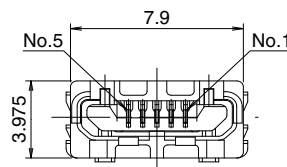
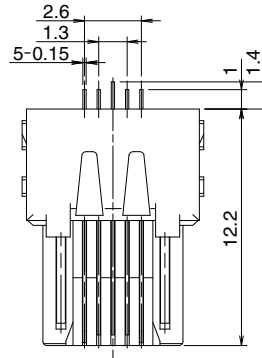
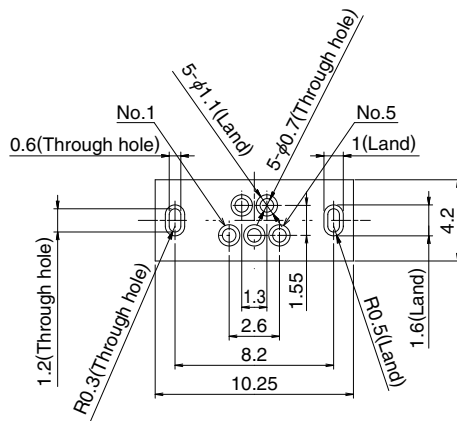
Plugs

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



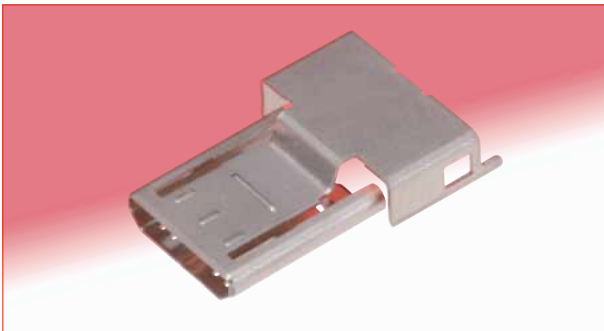
PCB mounting pattern

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

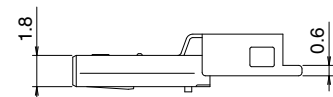
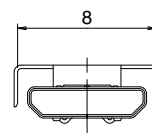
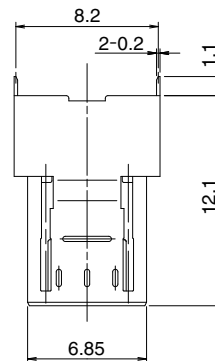


All dimensions : mm

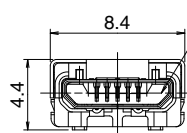
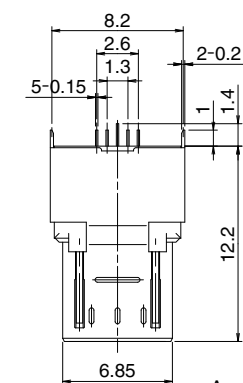
●Micro B - Component, Cover - through hole



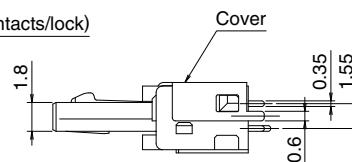
Part No.	HRS No.	Packaging
ZX20-B-SLDC	242-0022-1	4,000pcs/reel



●Assembled



Assembly
(insulator/contacts/lock)



Cover

All dimensions : mm

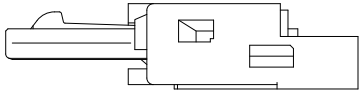
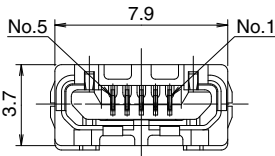
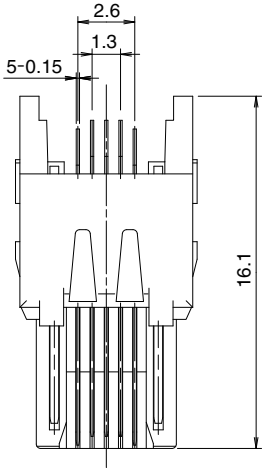
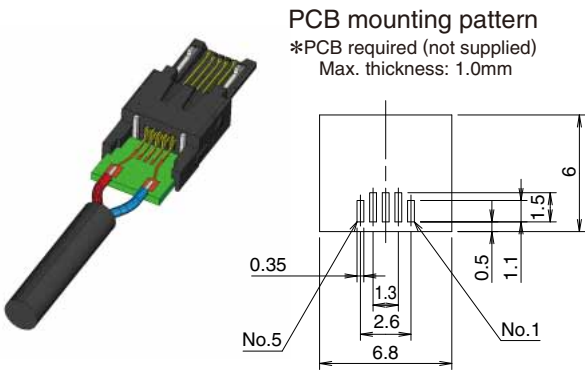
Plugs

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



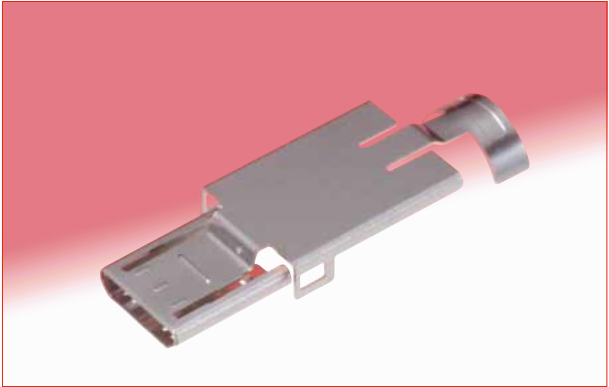
Part No.	HRS No.	Packaging
ZX64-B-5S-UNIT(31)	242-0009-3 31	1 piece

Contact HRS for Cable Termination Procedure Manual.

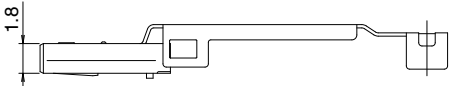
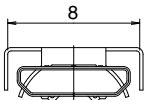
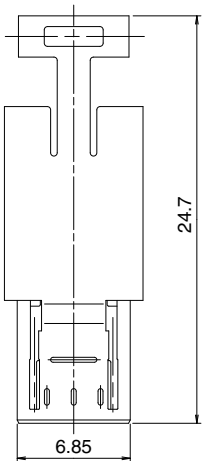


All dimensions : mm

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



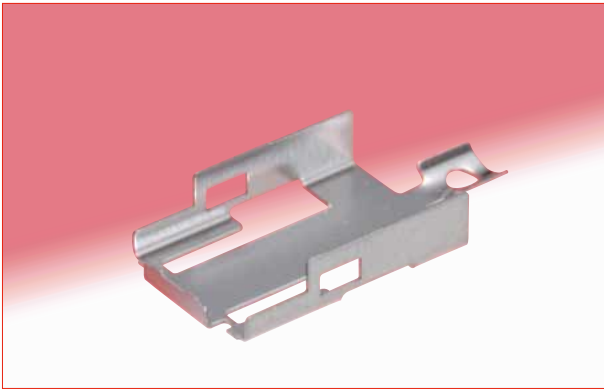
Part No.	HRS No.	Packaging
ZX64-B-SLDA	242-0013-0	4,000pcs/reel



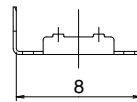
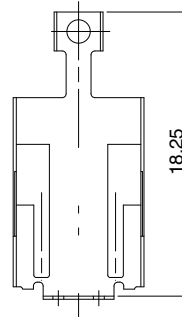
All dimensions : mm

■Plugs

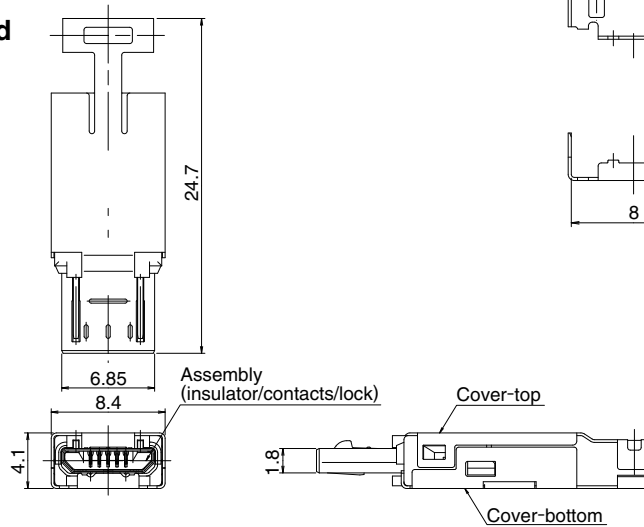
●Micro B - Component, Cover-bottom - Right angle SMT



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



●Assembled

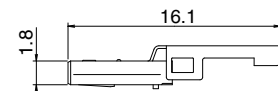
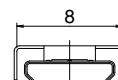
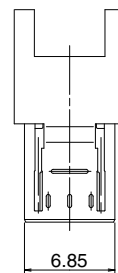


All dimensions : mm

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

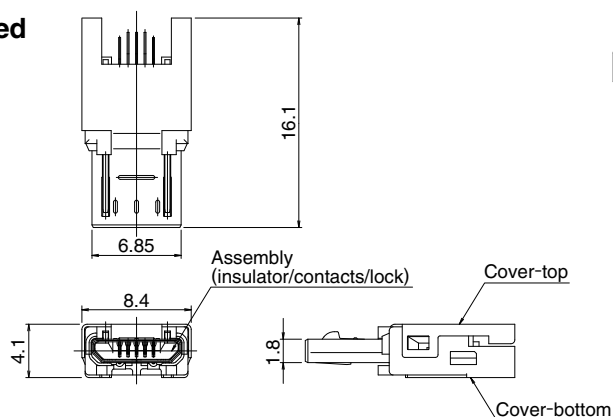


Part No.	HRS No.	Packaging
ZX64-B-SLDC	242-0018-4	4,000pcs/reel



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

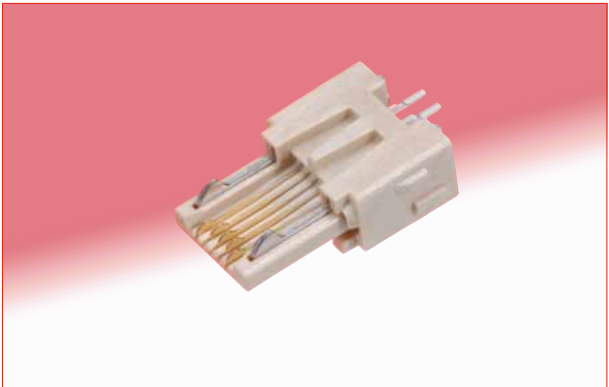
●Assembled



All dimensions : mm

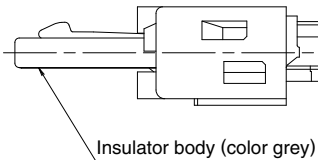
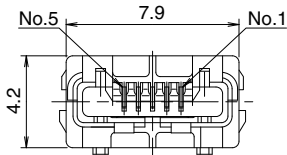
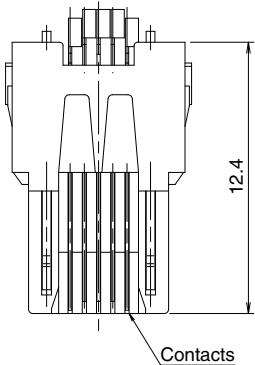
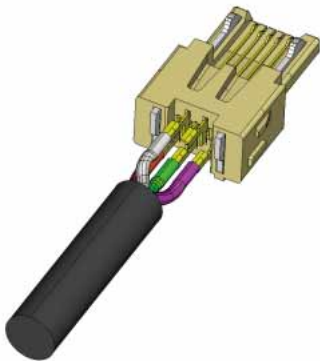
■Plugs

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



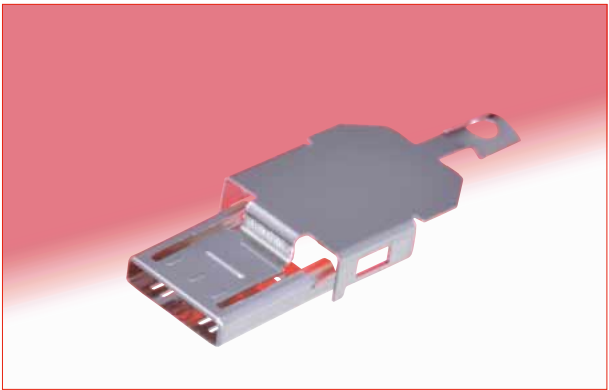
Part No.	HRS No.	Packaging
ZX40-A-5S-UNIT(30)	242-0010-2 30	1 piece

Contact HRS for Cable Termination Procedure Manual.

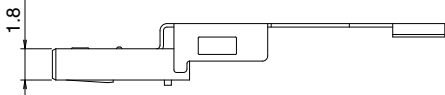
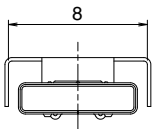
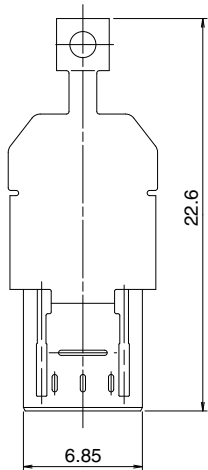


All dimensions : mm

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



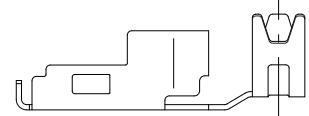
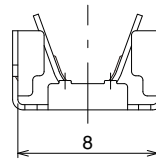
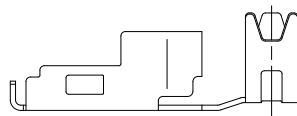
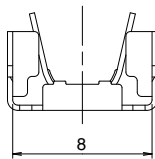
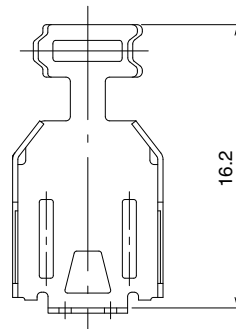
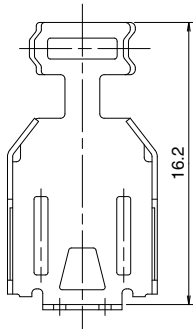
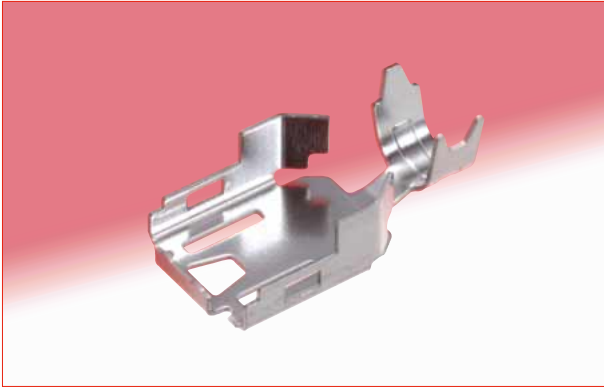
Part No.	HRS No.	Packaging
ZX40-A-SLDA	242-0011-5	4,000pcs/reel



All dimensions : mm

■ Plugs

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



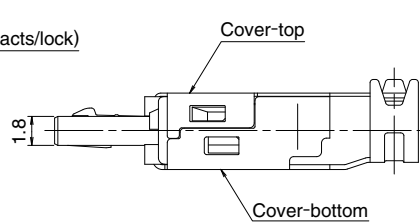
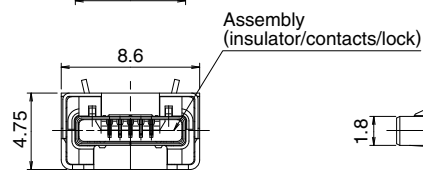
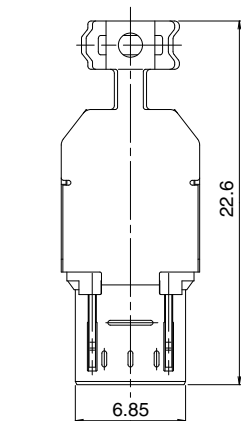
All dimensions : mm

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

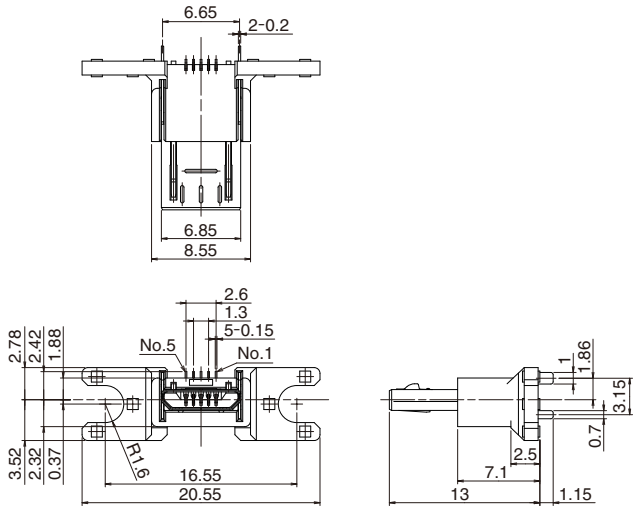
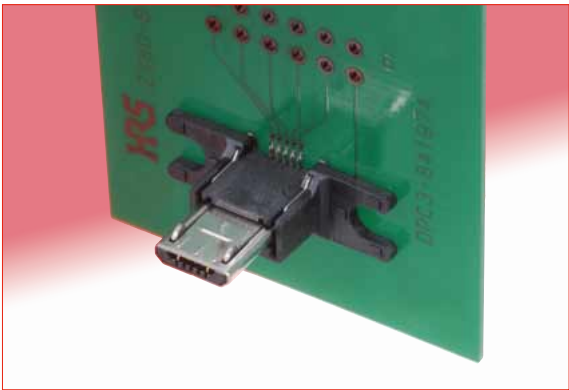
● Assembled



All dimensions : mm

■Plug-Vertical, cradle mount, Shell through hole

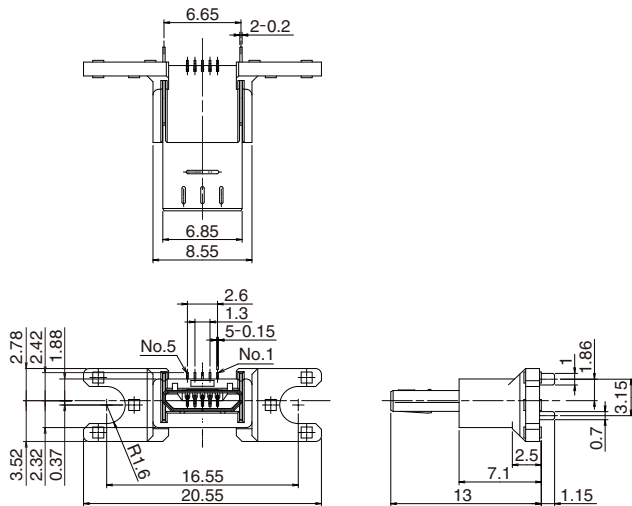
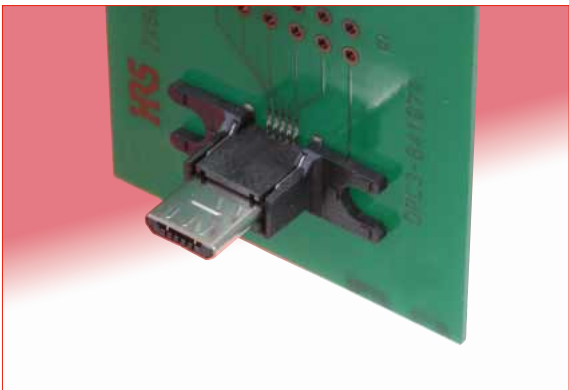
●Micro B, with lock



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

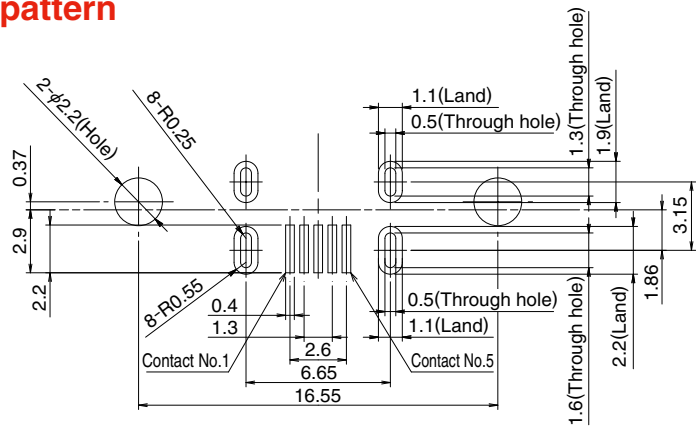
All dimensions : mm

●Micro B, without lock



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

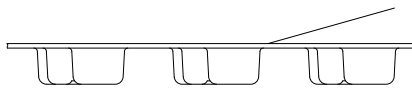
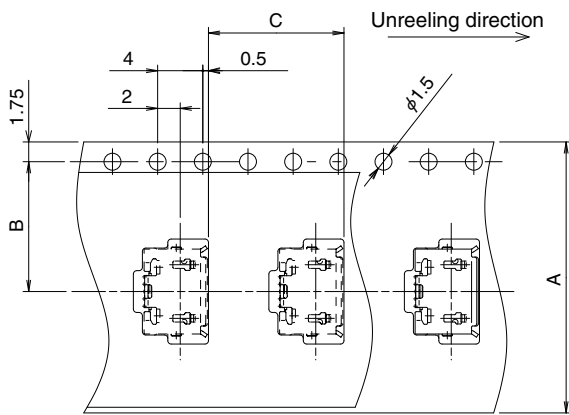
◆PCB mounting pattern



All dimensions : mm

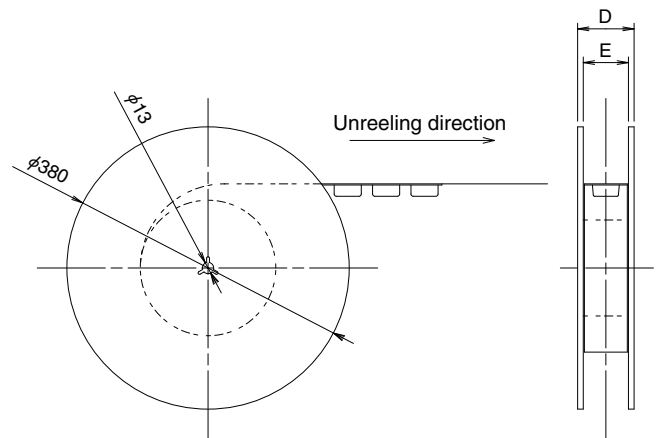
◆ Packaging Specifications

● 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

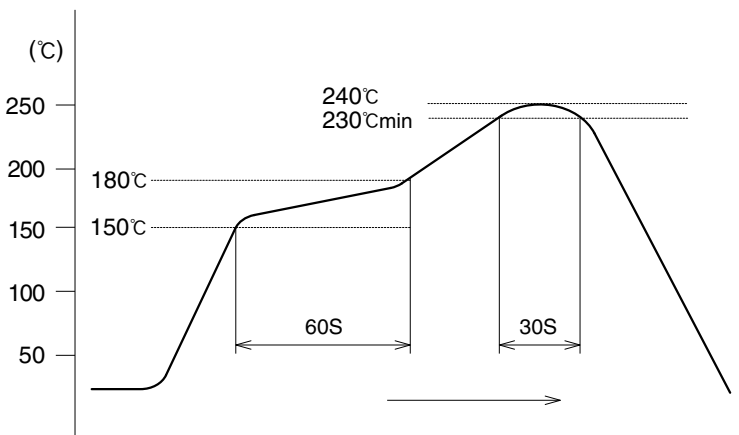
● Reel Dimensions



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

- 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 multiple horizontal dashed lines.

MEMO :

Handwriting practice area consisting of multiple horizontal dashed lines.

USA:

HIROSE ELECTRIC (U.S.A.), INC. HEADQUARTERS CHICAGO OFFICE
2300 Warrenville Road, Suite 150,
Downers Grove, IL 60515
Phone : +1-630-282-6700
<http://www.hirose.com/us/>

USA:

HIROSE ELECTRIC (U.S.A.), INC. BOSTON OFFICE
300 Brickstone Square Suite 201,
Andover, MA 01810
Phone : +1-978-662-5255

GERMANY:

HIROSE ELECTRIC EUROPE B.V. NUREMBERG OFFICE
Neumeyerstrasse 22-26, 90411 Nurnberg
Phone : +49-911 32 68 89 63
Fax : +49-911 32 68 89 69
<http://www.hirose.com/eu/>

UNITED KINGDOM:

HIROSE ELECTRIC EUROPE BV (UK BRANCH)
4 Newton Court, Kelvin Drive, Knowlhill,
Milton Keynes, MK5 8NH
Phone : +44-1908 202050
Fax : +44-1908 202058
<http://www.hirose.com/eu/>

CHINA:

HIROSE ELECTRIC TECHNOLOGIES (SHENZHEN) CO., LTD.
Room 09-13, 19/F, Office Tower Shun Hing Square, Di Wang Commercial Centre,
5002 Shen Nan Dong Road, Shenzhen City, Guangdong Province, 518008
Phone : +86-755-8207-0851
Fax : +86-755-8207-0873
<http://www.hirose.com/cn/>

KOREA:

HIROSE KOREA CO.,LTD.
143, Gongdan 1-daero, Siheung-si,
Gyeonggi-do, 15084, Korea
Phone : +82-31-496-7000
Fax : +82-31-496-7100
<http://www.hirose.co.kr/>

INDIA:

HIROSE ELECTRIC SINGAPORE PTE. LTD. BANGALORE LIAISON OFFICE
Unit No-403, 4th Floor, No-84, Barton Centre, Mahatma
Gandhi (MG) Road, Bangalore 560 001, Karnataka, India
Phone : +91-80-4120 1907
Fax : +91-80-4120 9908
<http://www.hirose.com/sg/>

USA:

HIROSE ELECTRIC (U.S.A.), INC. SAN JOSE OFFICE
2841 Junction Ave, Suite 200
San Jose, CA. 95134
Phone : +1-408-253-9640
Fax : +1-408-253-9641
<http://www.hirose.com/us/>

THE NETHERLANDS:

HIROSE ELECTRIC EUROPE B.V.
Hogehillweg #8 1101 CC Amsterdam Z-O
Phone : +31-20-6557460
Fax : +31-20-6557469
<http://www.hirose.com/eu/>

GERMANY:

HIROSE ELECTRIC EUROPE B.V. HANOVER OFFICE
Bayernstr. 3, Haus C 30855 Langenhagen, Germany
Phone : +49-511 97 82 61 30
Fax : +49-511 97 82 61 35
<http://www.hirose.com/eu/>

CHINA:

HIROSE ELECTRIC (SHANGHAI) CO., LTD.
18, Enterprise Center Tower 2, 209# Gong He
Road, Jing'an District, Shanghai, CHINA 200070
Phone : +86-21-6391-3355
Fax : +86-21-6391-3335
<http://www.hirose.com/cn/>

HONG KONG:

HIROSE ELECTRIC HONGKONG TRADING CO., LTD.
Room 1001, West Wing, Tsim Sha Tsui Centre, 66
Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong
Phone : +852-2803-5338
Fax : +852-2591-6560
<http://www.hirose.com/hk/>

SINGAPORE:

HIROSE ELECTRIC SINGAPORE PTE. LTD.
03, Anson Road, #20-01, Springleaf Tower,
Singapore 079909
Phone : +65-6324-6113
Fax : +65-6324-6123
<http://www.hirose.com/sg/>

MALAYSIA:

PENANG REPRESENTATIVE OFFICE
73-3-1, Ideal@The One, Jalan Mahsuri, Bayan
Lepas Penang, 11950, Malaysia
Phone : +604-648-5536
<http://www.hirose.com/sg/>

USA:

HIROSE ELECTRIC (U.S.A.), INC. DETROIT OFFICE (AUTOMOTIVE)
17197 N. Laurel Park Drive, Suite 253,
Livonia, MI 48152
Phone : +1-734-542-9963
Fax : +1-734-542-9964
<http://www.hirose.com/us/>

GERMANY:

HIROSE ELECTRIC EUROPE B.V. GERMAN BRANCH
Schoenbergstr. 20, 73760 ostfildern
Phone : +49-711-456002-1
Fax : +49-711-456002-299
<http://www.hirose.com/eu/>

FRANCE:

HIROSE ELECTRIC EUROPE B.V. PARIS OFFICE
130 Avenue Joseph Kessel, Bat E, 78960
Voisins le Bretonneux, France
Phone : +33-1-85764886
Fax : +33-1-85764823
<http://www.hirose.com/eu/>

CHINA:

HIROSE ELECTRIC (SHANGHAI) CO.,LTD. BEIJING BRANCH
A1001, Ocean International Center, Building 56# East 4th
Ring Middle Road, ChaoYang District, Beijing, 100025
Phone : +86-10-5165-9332
Fax : +86-10-5908-1381
<http://www.hirose.com/cn/>

TAIWAN:

HIROSE ELECTRIC TAIWAN CO., LTD.
103 8F, No.87, Zhengzhou Rd., Taipei
Phone : +886-2-2555-7377
Fax : +886-2-2555-7355
<http://www.hirose.com/tw/>

INDIA:

HIROSE ELECTRIC SINGAPORE PTE. LTD. DELHI LIAISON OFFICE
Office NO.552, Regus-Green Boulevard, Level5, Tower C,
Sec62, Plot B-9A, Block B, Noida, 201301, Uttar Pradesh, India
Phone : +91-12-660-8018
Fax : +91-120-4804949
<http://www.hirose.com/sg/>

THAILAND:

BANGKOK OFFICE (REPRESENTATIVE OFFICE)
Unit 4703, 47th FL., 1 Empire Tower, South Sathorn
Road, Yannawa, Sathorn, Bangkok 10120 Thailand
Phone : +66-2-686-1255
Fax : +66-2-686-3433
<http://www.hirose.com/sg/>



HIROSE ELECTRIC CO.,LTD.

2-6-3,Nakagawa Chuoh,Tsuzuki-Ku,Yokohama-Shi 224-8540,JAPAN
TEL: +81-45-620-3526 Fax: +81-45-591-3726
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[ZX40-B-5S-UNIT\(12\)](#) [ZX40-B-SLDA](#) [ZX40-SLDB](#) [ZX64-B-5S-UNIT\(14\)](#) [ZX40-A-SLDA](#) [ZX20-B-5S-UNIT](#) [ZX64-B-SLDA](#) [ZX64-B-SLDC](#) [ZX20-B-SLDC](#) [ZX40-SLDB\(3.3\)](#) [ZX62R-B-5P](#) [ZX62D-B-5P8](#) [ZX62MD1-B-5P\(01\)](#) [ZX62-AB-5PA\(11\)](#) [ZX62MD1-AB-5P\(01\)](#) [ZX62D1-B-5PA](#) [ZX64-SLDB](#) [ZX40-B-5S-500-STDA](#) [ZX40-B-5S-1500-STDA](#) [ZX10-SLDB\(3.3\)\(01\)](#) [ZX40-B-5S-1000-STDA](#) [ZX40-A-5S-75-STDAJ](#) [ZX62R-AB-5P](#) [ZX80-B-5SA\(01\)](#) [ZX60-B-5S\(01\)](#) [ZX62D2-AB-5PA8](#) [ZX20-B-5S-UNIT\(13\)](#) [ZX62MD2-B-5PA](#) [ZX40-B-5S-UNIT\(13\)](#) [ZX64-B-5S/CK-MP](#) [ZX62D-B-5PA5](#) [ZX60-B-5SA](#) [ZX64-B-5S/CK-MP\(62\)](#) [ZX64-B-5S/CK-MP\(64\)](#) [ZX64-B-5S/CK-MP\(61\)](#) [ZX64-B-5S/CK-MP\(63\)](#) [ZX64-B-5S/CK-MP\(01\)](#) [ZX62D-B-5PA8\(30\)](#) [ZX40-A-5S-UNIT\(30\)](#) [ZX62M-B-5P\(30\)](#) [ZX62-B-5PA\(33\)](#) [ZX62RD-AB-5P8\(30\)](#) [ZX80-B-5S\(30\)](#) [ZX62R-AB-5P\(30\)](#) [ZX62D-B-5P8\(30\)](#) [ZX80-B-5SA\(30\)](#) [ZX80-B-5SA\(31\)](#) [ZX62D-AB-5P8\(30\)](#) [ZX80-B-5S\(31\)](#) [ZX80-B-5P\(30\)](#) [ZX40-B-5S-1000-STDA\(30\)](#) [ZX40-B-5S-500-STDA\(30\)](#) [ZX20-B-5S-UNIT\(30\)](#) [ZX62MD1-B-5P\(31\)](#) [ZX80-B-5P\(31\)](#) [ZX62MD1-AB-5P\(31\)](#) [ZX60-B-5S\(30\)](#) [ZX62D2-AB-5PA8\(30\)](#) [ZX62MD2-B-5PA\(30\)](#) [ZX60-B-5SA\(30\)](#) [ZX40-B-5S-UNIT\(32\)](#) [ZX40C-B-5S-UNIT\(30\)](#) [ZX64-B-5S-UNIT\(31\)](#)