

HR34B Series

Push-on Bayonet Lock Small Waterproof Connectors



Push On Bayonet



Waterproof



Compact



Features

1. Water and Dust Protection

Provides IPX7 or IPX8 waterproof performance when mated, with excellent oil resistance. The 4-position receptacles are independently waterproof.

- IPX7: Withstands immersion at 1 m depth for 30 minutes (mated)
- IPX8: Withstands immersion at 2 m depth for 14 days (mated)

2. Excellent Mating Operability

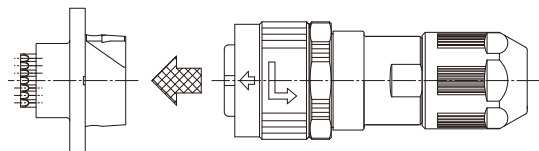
Mating: Simply push in the plug to complete connection.

Unmating: Rotate the sleeve counterclockwise to unlock.

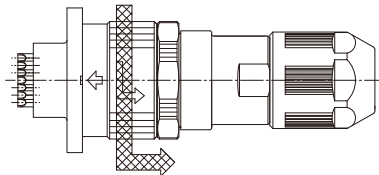
Alignment marks assist easy mating.

Three guide keys enable blind mating and protect receptacle terminals from damage.

Mating: Simply push in the plug to complete connection.



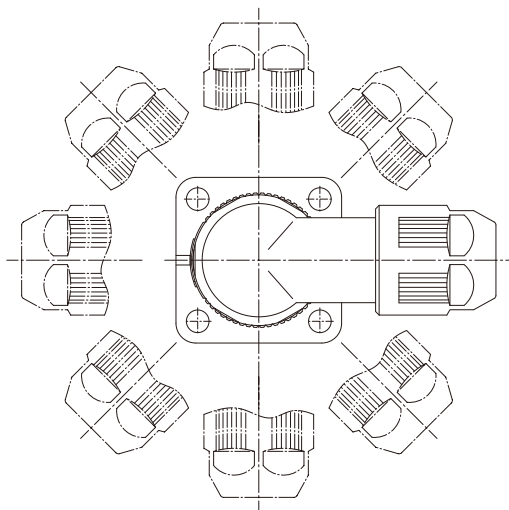
Unmating: Rotate the sleeve counterclockwise to unlock.



Push-on Bayonet Lock

3. Multi-Directional Cable Exit

Right-angle plugs allow cable exit in eight directions (45° increments).



Cable Exit Directions

4. Safety Standards

10-position connectors (excluding soldering plugs) are UL certified.

4-position connectors are TÜV certified.

Product Specification

Rated Current	10pos.: 3A 4pos.: 5A	Operating Temperature	-20 to +125°C
Rated Voltage	10pos.: 200V AC, 250V DC 4pos.: 200V AC, 200V DC (Pollution Degree 3) 400V AC, 400V DC (Pollution Degree 2)	Storage Temperature	-10 to +60°C

Item	Specifications	Conditions
Contact Resistance	20m Ω Max.	Measured at 1A DC
Insulation Resistance	1,000M Ω Min.	Measured at 500V DC
Withstand Voltage	No Flashover or Breakdown	10pos.: 900V AC for 1 min. 4pos.: 2000V AC for 1 min.
Vibration Resistance	No electrical interruption of 10 μ s or more.	Frequency: 10 to 500Hz/cycle, total amplitude of 0.75mm, 98m/s ² each, 3 hours in 3 axis.
Shock Resistance	No electrical interruption of 10 μ s or more.	Acceleration: 490m/s ² , 11ms duration, 3 axis, each for 3 times.
Mating Durability	Contact Resistance: 30m Ω Max.	500 times
Temperature Cycle	Insulation Resistance: 500M Ω Min.	Temperature: -55 $\rightarrow$ Normal Temperature $\rightarrow$ +125 $\rightarrow$ Normal Temperature Time: 30 $\rightarrow$ 2 to 3 $\rightarrow$ 30 $\rightarrow$ 2 to 3 minutes, left for 5 cycles.
Moisture Resistance	Insulation resistance: 50M Ω Min. (at high humidity condition) 500M Ω Min. (at dry condition)	Temperature: 71°C, relative humidity: 95%, left for 336 hours
Water Resistance	No water intrusion inside connector	At a water depth of 1 meters for 0.5 hours in mated condition

Materials/Finish

Part		Material	Finish / Remarks
Plug	Outer Shell	Zinc Alloy, Aluminum Alloy, and Polyamide Resin	Black Chrome Plating, Black Chromate Finish (Trivalent Chromium)
	Housing	PPS Resin	Black
	Female Contact	10pos.: Phosphor Bronze	Gold Plating (Contact area)
		4pos.: Copper Alloy	Silver Plating
	O-ring, Gasket	Fluororubber, Nitrile Hydride Rubber	-
Receptacle	Outer Shell	Zinc Alloy	Black Chromate Finish (Trivalent Chromium)
	Housing	PPS Resin	Black
	Female Contact	10pos.: Copper Alloy	Gold Plating (Contact area)
		4pos.: Brass	Silver Plating
	Ground Contact	4pos.: Brass	Silver Plating
	O-ring	Fluororubber	-

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.

■ Plug

HR34B - 12 WP A - 10 S - (##)

① ② ③ ④ ⑤ ⑥ ⑦

① Series Name	HR34B	⑤ No. of Contacts	4pos., 10pos.
② Shell Size	Diameter(mm) of the mating interface of the plug.	⑥ Contact Gender	S: Female Contact for Soldering SC: Female Contact for Crimping
③ Shell Type	WP: Straight Plug WLP: Right Angle Plug	⑦ Other Specifications	Two-digit character is added to indicate other specifications as needed.
④ Conduit Material and Applicable Cable Size	A: Conduit Material Metal, Applicable Cable (Reference): (φ 5.7 to 6.5) B: Conduit Material Metal, Applicable Cable (Reference): (φ 6.5 to 7.3) D: Conduit Material Plastic, Applicable Cable (Reference): (φ 5.7 to 6.5) E: Conduit Material Plastic, Applicable Cable (Reference): (φ 6.5 to 7.3) K: Conduit Material Metal, Applicable Cable (Reference): (φ 8.0 ~ 9.0)		

■ Receptacle

HR34B - 12 WR A - 10 P - (##)

① ② ③ ④ ⑤ ⑥ ⑦

① Series Name	HR34B	⑤ No. of Contacts	4pos., 10pos.
② Shell Size	Diameter(mm) of the mating interface of the plug.	⑥ Contact Gender	P: Male Contact for Soldering
③ Shell Type	WR: Receptacle	⑦ Other Specifications	Two-digit character is added to indicate other specifications as needed.
④ Shell Shape	A: Square Flange for 10pos. B: Square Flange for 4pos.		

■ Crimp Contact

HR34B - SC1 - 2 1 1

① ② ③ ④ ⑤

① Series Name	HR34B	④ Barrel Type	1: 20 to 25 AWG
② Contact Type	SC1: Female Contact	⑤ Plating	1: Gold Plated
③ Contact Shape	1: Loose Contact 2: Reel Contact		

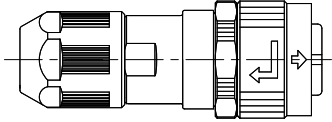
Connector Mating Combinations

10 pos. plug

Straight

Soldering HR34B-12WP#-10S(##)

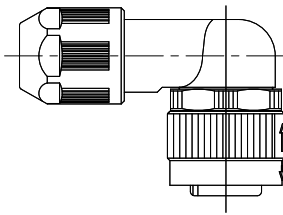
Crimping HR34B-12WP#-10SC(##)



Right Angle

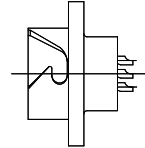
Soldering HR34B-12WLP#-10S(##)

Crimping HR34B-12WLP#-10SC(##)



10 pos. receptacle

Soldering
HR34B-12WRA-10P

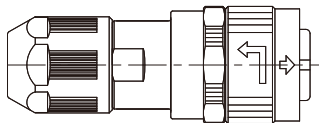


4 pos. plug

Straight

Soldering (Standard Mating Key)

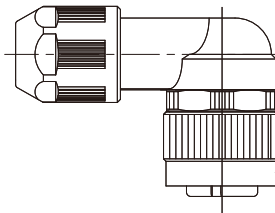
HR34B-12WP#-4S(##)



Right Angle

Soldering (Standard Mating Key)

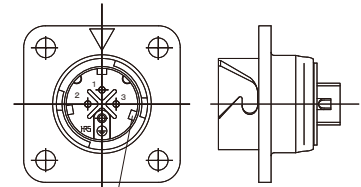
HR34B-12WLP#-4S(##)



Standard Key Position

4 pos. receptacle

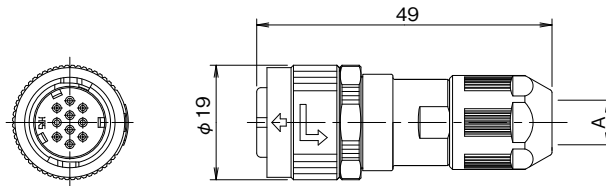
Soldering (Standard Mating Key)
HR34B-12WRB-4P



Standard Key Position

Straight Plug

Standard Type (Conduit Material: Plastic)



(Example of product appearance.)

Soldering Type

Part No.	HRS No.	No. of Pos.	A	Applicable Cable Dia. (Reference)	Solder Pot Inner Dia.	Purchase Unit
HR34B-12WPD-10S(40)	CL0134-0026-0-40	10	φ 7.4	(φ 5.7 to 6.5)	φ 1	50pcs per tray
HR34B-12WPE-10S(40)	CL0134-0027-2-40		φ 8.5	(φ 6.5 to 7.3)		
HR34B-12WPD-4S(40)	CL0134-0020-3-40	4	φ 7.4	(φ 5.7 to 6.5)	φ 1.7	
HR34B-12WPE-4S(40)	CL0134-0025-7-40		φ 8.5	(φ 6.5 to 7.3)		

Crimp Connection Type

Part No.	HRS No.	No. of Pos.	A	Applicable Cable Dia. (Reference)	Purchase Unit
HR34B-12WPD-10SC(40)	CL0134-0037-6-40	10	φ 7.4	(φ 5.7 to 6.5)	50pcs per tray
HR34B-12WPE-10SC(40)	CL0134-0038-9-40		φ 8.5	(φ 6.5 to 7.3)	

Robust Type (Conduit Material: Metal)

Soldering Type

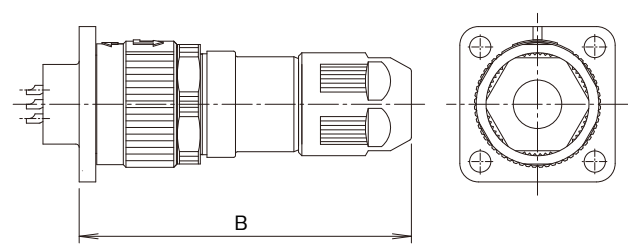
Part No.	HRS No.	No. of Pos.	A	Applicable Cable Dia. (Reference)	Solder Pot Inner Dia.	Purchase Unit
HR34B-12WPA-10S(40)	CL0134-0004-7-40	10	φ 7.4	(φ 5.7 to 6.5)	φ 1	50pcs per tray
HR34B-12WPB-10S(40)	CL0134-0007-5-40		φ 8.5	(φ 6.5 to 7.3)		
HR34B-12WPK-10S(40)	CL0134-0052-0-40		φ 9.5	(φ 8.0 to 9.0)		

Crimp Connection Type

Part No.	HRS No.	No. of Pos.	A	Applicable Cable Dia. (Reference)	Purchase Unit
HR34B-12WPA-10SC(40)	CL0134-0017-9-40	10	φ 7.4	(φ 5.7 to 6.5)	50pcs per tray
HR34B-12WPB-10SC(40)	CL0134-0028-5-40		φ 8.5	(φ 6.5 to 7.3)	
HR34B-12WPK-10SC(40)	CL0134-0053-2-40		φ 9.5	(φ 8.0 to 9.0)	

Note: Depending on the cable construction, the waterproof performance and cable clamp force may differ. Please use after confirming in advance.

Mated Condition



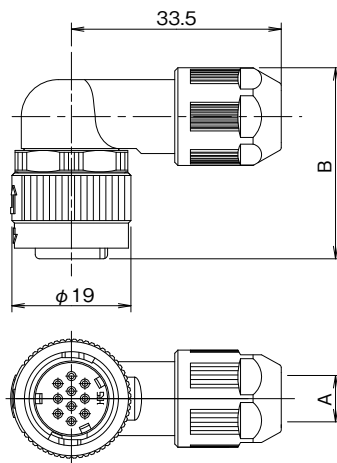
(Example of product appearance.)

Unit : mm

Straight Plug Mating Combination		B
10pos. Plug + Receptacle Soldering		50.1
4pos. Plug + Receptacle Soldering		49.6

Right Angle Plug

Standard Type (Conduit Material: Plastic)



(Example of product appearance.)

Soldering Type

Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Applicable Cable Dia. (Reference)	Solder Pot Inner Dia.	Purchase Unit
HR34B-12WLPD-10S(40)	CL0134-0039-1-40	10	φ 7.4	30.85	(φ 5.7 to 6.5)	φ 1	20pcs per tray
HR34B-12WLPE-10S(40)	CL0134-0040-0-40		φ 8.5		(φ 6.5 to 7.3)		50pcs per tray
HR34B-12WLPD-4S(40)	CL0134-0030-7-40	4	φ 7.4		(φ 5.7 to 6.5)	φ 1.7	50pcs per tray
HR34B-12WLPE-4S(40)	CL0134-0035-0-40		φ 8.5		(φ 6.5 to 7.3)		20pcs per tray

Crimp Connection Type

Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Applicable Cable Dia. (Reference)	Purchase Unit
HR34B-12WLPD-10SC(40)	CL0134-0041-3-40	10	φ 7.4	30.85	(φ 5.7 to 6.5)	50pcs per tray
HR34B-12WLPE-10SC(40)	CL0134-0042-6-40		φ 8.5		(φ 6.5 to 7.3)	

Robust Type (Conduit Material: Metal)

Soldering Type

Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Applicable Cable Dia. (Reference)	Solder Pot Inner Dia.	Purchase Unit
HR34B-12WLPA-10S(40)	CL0134-0005-0-40	10	φ 7.4	30.5	(φ 5.7 to 6.5)	φ 1	50pcs per tray
HR34B-12WLPB-10S(40)	CL0134-0008-8-40		φ 8.5	31.5	(φ 6.5 to 7.3)		
HR34B-12WLPA-10S(40)	CL0134-0054-5-40		φ 9.5		(φ 8.0 to 9.0)		

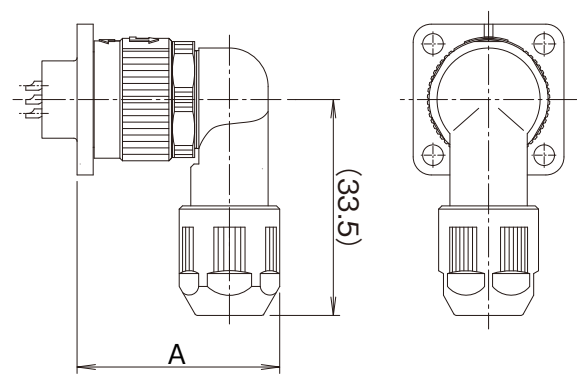
Crimp Connection Type

Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Applicable Cable Dia. (Reference)	Purchase Unit
HR34B-12WLPA-10SC(40)	CL0134-0018-1-40	10	φ 7.4	30.5	(φ 5.7 to 6.5)	50pcs per tray
HR34B-12WLPB-10SC(40)	CL0134-0029-8-40		φ 8.5		(φ 6.5 to 7.3)	
HR34B-12WLPA-10SC(40)	CL0134-0055-8-40		φ 9.5	31.5	(φ 8.0 to 9.0)	

Note: Depending on the cable construction, the waterproof performance and cable clamp force may differ. Please use after confirming in advance.

Mated Condition

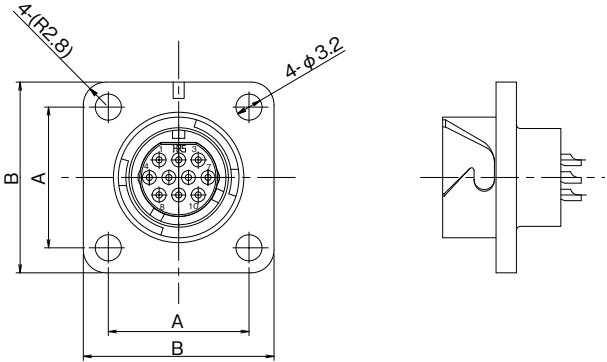


(Example of product appearance.)

Unit : mm

Right Angle Plug Mating Combination		A
10pos. Plug Shell A,B Type.	Plug + Receptacle Soldering	31.5
10pos. Plug Shell D,E Type.		31.8
10pos. Plug Shell K Type.		32.5
4pos. Plug + Receptacle Soldering		31.3

Receptacle



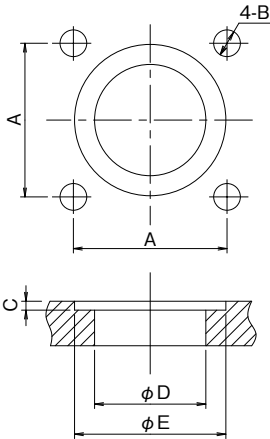
(Example of product appearance.)

Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Solder Pot Inner Diameter	Purchase Unit
HR34B-12WRA-10P	CL0134-0016-6-00	10	17.26	23.4	φ 1	70pcs per tray
HR34B-12WRB-4P	CL0134-0021-6-00	4	18.26	25.4	φ 1.4	1pc per bag

Note: O ring for water proof is not attached. Please find appropriate one from the market.

Receptacle Panel Mount Dimension

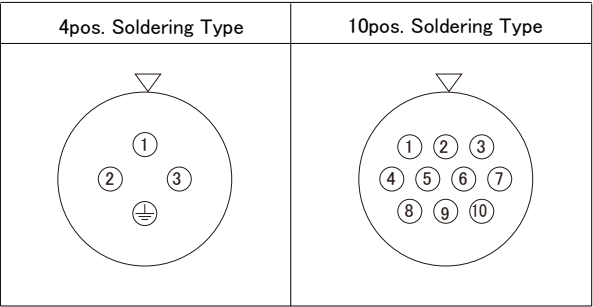


Symbol	HR34B-12WRA-10P	HR34B-12WRB-4P
A	17.26 ± 0.05	18.26 ± 0.05
B	M3 × 0.5	
C	1 0/-0.1	1.1 0/-0.1
D	12.5 +0.1/0	16.3 +0.1/0
E	17 +0.1/0	20.8 +0.1/0

Recommended O Ring Dimension

Part No.	Applicable Wire	Inner Diameter
HR34B-12WRA-10P	φ 1.5	φ 11.5
HR34B-12WRB-4P		φ 15.5

Receptacle Contact Arrangement

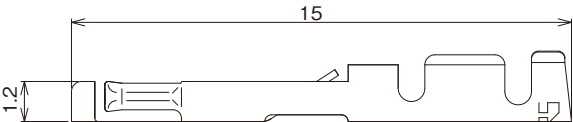


Note 1: The contact arrangements are from the view of the receptacle connector mating face.

Note 2: ⊕ mark is ground terminal.

Crimp Contact

Female Contact



Part No.	HRS No.	Applicable Cable	Purchase Unit
HR34B-SC1-111	CL0134-0051-7-00	20 to 25 AWG Outer Dia. ϕ 1.7 Max.	100pcs per bag
HR34B-SC1-211	CL0134-0050-4-00		10,000pcs per reel

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Applicable Tools

Manual Contact Crimping Tool



Press CM-105C



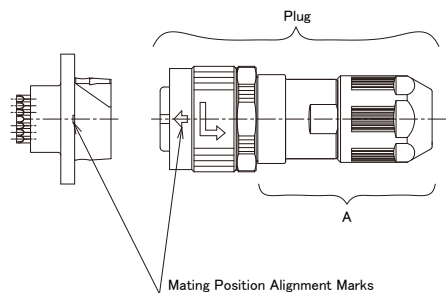
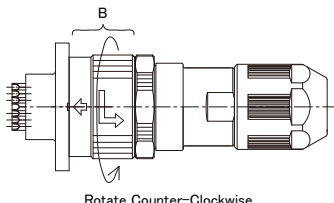
Contact Extraction Tool



Type	Part No.	HRS No.	Applicable Contact	Applicable Cable
Automatic Crimping Machine Body	CM-105C	CL0901-0001-0-00	-	-
Automatic Crimping Machine Applicator	AP105-HR34B-1	CL0901-2051-2-00	HR34B-SC1-211	20 to 25 AWG Outer Dia. ϕ 1.7 Max.
Manual Crimp Tool	HT304/HR34B-1	CL0150-0107-9-00	HR34B-SC1-111	20 AWG, 23 AWG, 25 AWG Outer Dia. ϕ 1.7 Max.
Contact Extraction Tool	RP6-SC-TP	CL0150-0039-0-00	HR34B-SC1-111 HR34B-SC1-211	-

Note 1: Perform crimping according to the Crimping Standards and Crimping Conditions Table.
Note 2: Tools not specified by Hirose are outside warranty coverage.
Note 3: Only use cables and contacts listed in the Crimp Conditions Table.
Refer to that table for compatible core wire structures.
For unlisted cables, please contact a Hirose sales representative.

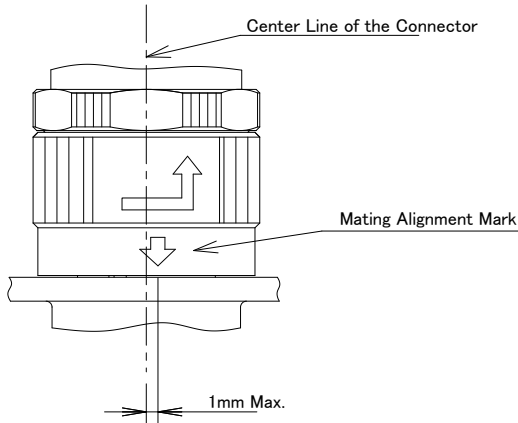
Handling

1. Mating	2. Un-mating
 Mating Position Alignment Marks	 Rotate Counter-Clockwise
Holding the plug by the outer shell (A) align the arrow on the plug with the alignment mark on the receptacle and push straight in.	Rotate the sleeve (B) counter-clockwise to a full stop and un-mate the plug from the receptacle.

Precautions

Alignment Check

When fully mated and locked, the alignment arrow on the plug must line up with the center mark on the receptacle. If the arrow and mark are misaligned (up to 1 mm), reinsert the plug until they align correctly.



Handling Instructions:

1. Always connect or disconnect the connector after turning off power.
2. When inserting, push the connector until the plug's arrow tip aligns with the receptacle's mating mark (see diagram above).
3. The display method of the mating mark may differ depending on the receptacle type.
4. To maintain waterproofing and cable retention, use cables within the specified diameter range.
Please note that actual performance may vary depending on the cable's construction. Be sure to verify compatibility before use.
5. For Cable Assembly Instructions, please refer to our website.
6. The white label on the connector may come off if exposed to solvents such as alcohol.
7. Silver-Plated Contact Handling (4-pos Type)
Silver reacts easily with sulfur gases and may tarnish under the following conditions:
 - Dusty environments
 - Areas with high concentrations of sulfur dioxide, hydrogen sulfide, or nitrogen dioxide (e.g., near factory exhaust or vehicle emissions)
 - Near heaters, or in locations with large temperature variations or high humidity

Storage Conditions:

Keep in original packaging or equivalent container.

- Temperature: -10 to +60°C, Humidity: 85% max.
(Store in a stable environment free from rapid temperature changes.)
- Use within 6 months of delivery. (After 6 months, check solderability before use.)

While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please confirm the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non-specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, assurance will not be given.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.