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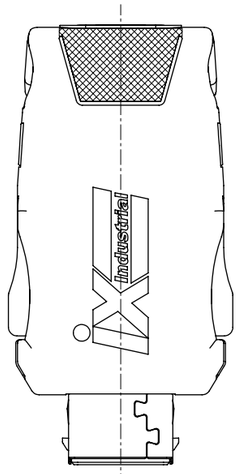
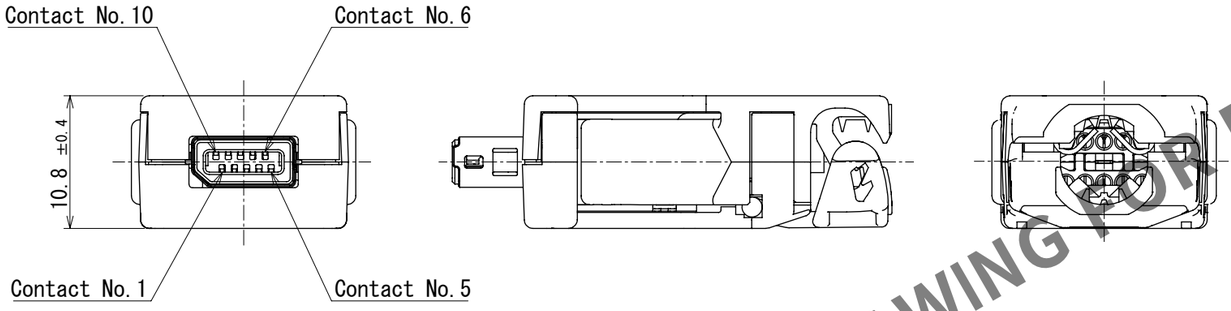
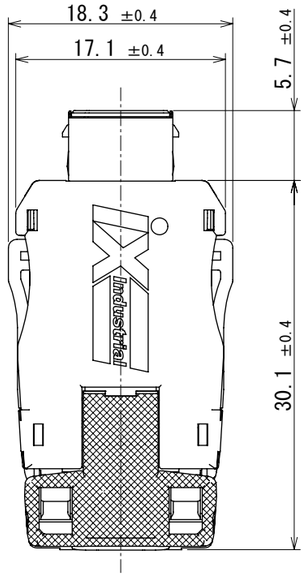


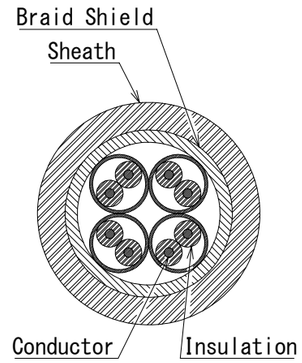




Notes. 1. Recommended cable condition is shown below.
A list of conpatible cable is available on the Hirose website.
When using a non-recommended cable, please contact a Hirose sales representative.
Refer to the technical specification (ETAD-E3267) for wiring and assembly procedures.

Recommended Cable

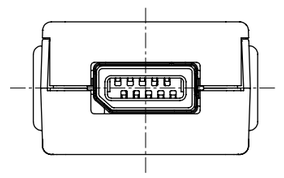
Items		IX30GF2	IX31GF2
Conductor	Size	AWG26 to 28	AWG24 to 25
	Composition	7 stranded	
	Material	Annealed copper wire	
Insulation O.D.		⌀0.95 to 1.05mm	⌀1.1 to 1.25mm
Braid Shield		Tin plating	
Sheath O.D.		⌀4.1 to 7.1mm	



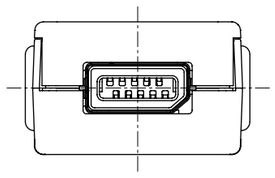
2. Type A is defined for 10/100 Mbit/s and 1/10 Gbit/s Ethernet communication.
Please use Type B for all others non Ethernet applications like signaling, serial or other industrial bus communication systems. Type B is not defined pin assignment.
This drawing shows the shape of the Type A as a representative.

Mating Key

Type A



Type B



Pin Assignment For 10/100 Mbit/s And 1/10 Gbit/s Ethernet

Contact No.	Signal		Use TIA Cable	
	10/100Mbit/s	1/10Gbit/s	TIA/EIA-568-A	TIA/EIA-568-B
1	TX+	BI_DA+	White/Green	White/Orange
2	TX-	BI_DA-	Green	Orange
3	N.C	N.C	N.C	N.C
4	N.C	BI_DC+	Blue	Blue
5	N.C	BI_DC-	White/Blue	White/Blue
6	RX+	BI_DB+	White/Orange	White/Green
7	RX-	BI_DB-	Orange	Green
8	N.C	N.C	N.C	N.C
9	N.C	BI_DD+	White/Brown	White/Brown
10	N.C	BI_DD-	Brown	Brown

HRS DRAWING FOR REFERENCE

3 This product is packed individually in a tray.
The delivery condition of Shield shell is shown in "Shield Shell Delivery Form".

NO.	MATERIAL	FINISH , REMARKS
5	PC	30GF : Clear, UL94V-0 31GF : Clear yellow, UL94V-0
4	PA	Type A : Black, UL94V-0 Type B : Dark Gray, UL94V-0
3	Stainless Steel	
2	PA	30GF : Black, UL94V-0 31GF : Dark Gray, UL94V-0
1	Copper Alloy	Contact area : Gold 0.2 μm min Wiring area : Gold 0.03 μm min Under plating : Nickel 2 μm min

NO.	MATERIAL	FINISH , REMARKS
12	Paper	
11	PET	Clear
10	PC	Black, UL94V-0
9	PC	Black, UL94V-0
8	PC	Black, UL94V-0
7	Stainless Steel	Nickel 0.2 μm min
6	Stainless Steel	Nickel 1 μm min

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2:1	1	4	DIS-E-00019210	MY.KOMUKAI	KI.KAGOTANI	2025.07.15

HIROSE ELECTRIC CO.,LTD.	APPROVED : TU.TANIGUCHI	2025.03.10	DRAWING NO.	EDCX-408882-00-00
	CHECKED : KI.KAGOTANI	2025.03.10	PART NO.	IX3*GF2-*-*S-CV
	DESIGNED : TS.SAKAIZAWA	2025.03.10		
	DRAWN : MY.KOMUKAI	2025.03.10	CODE NO.	1 CL251

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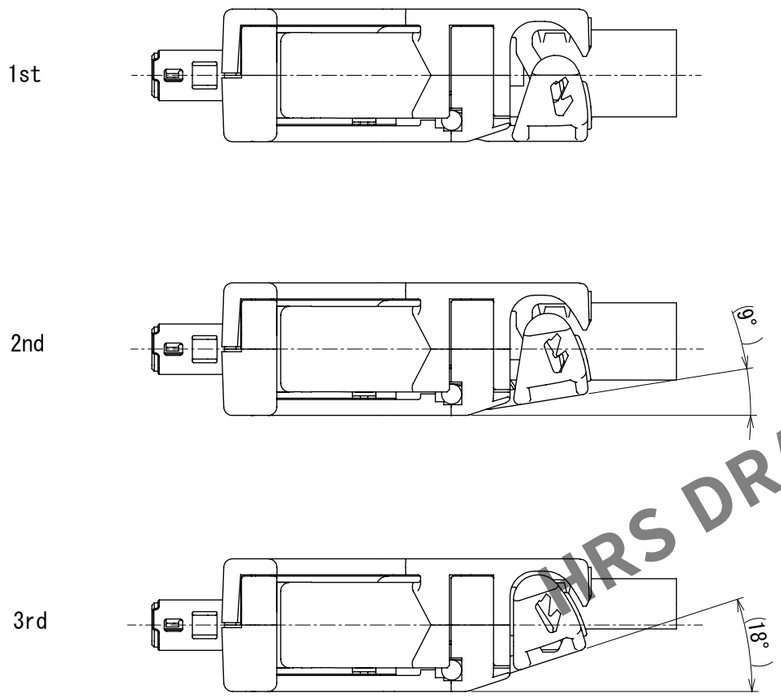
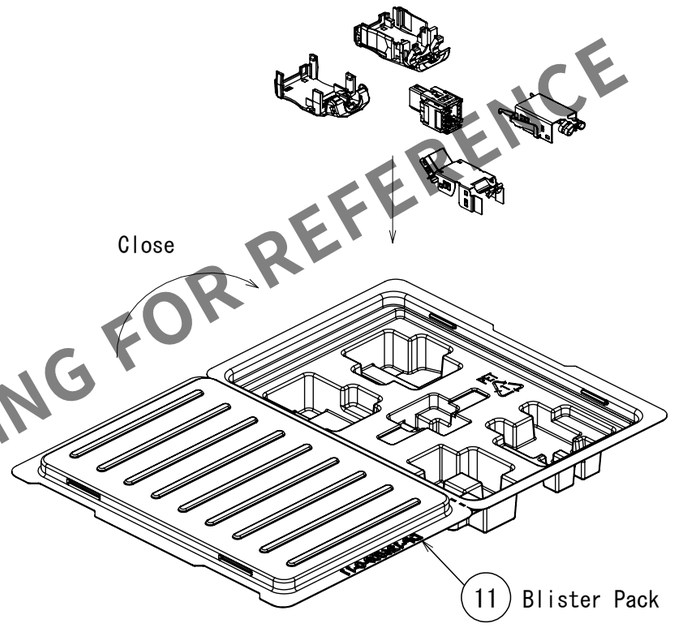
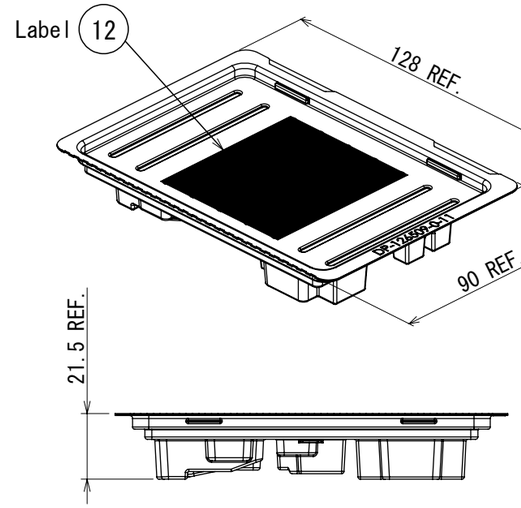
Cable Clamp Condition



3 Packing Method



Closed Condition



HRS DRAWING FOR REFERENCE

HRS	DRAWING NO.	EDCX-408882-00-00
	PART NO.	IX3*GF2-*-*S-CV
	CODE NO.	△1 CL251

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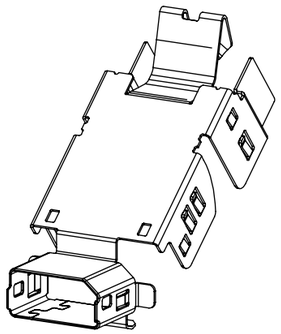
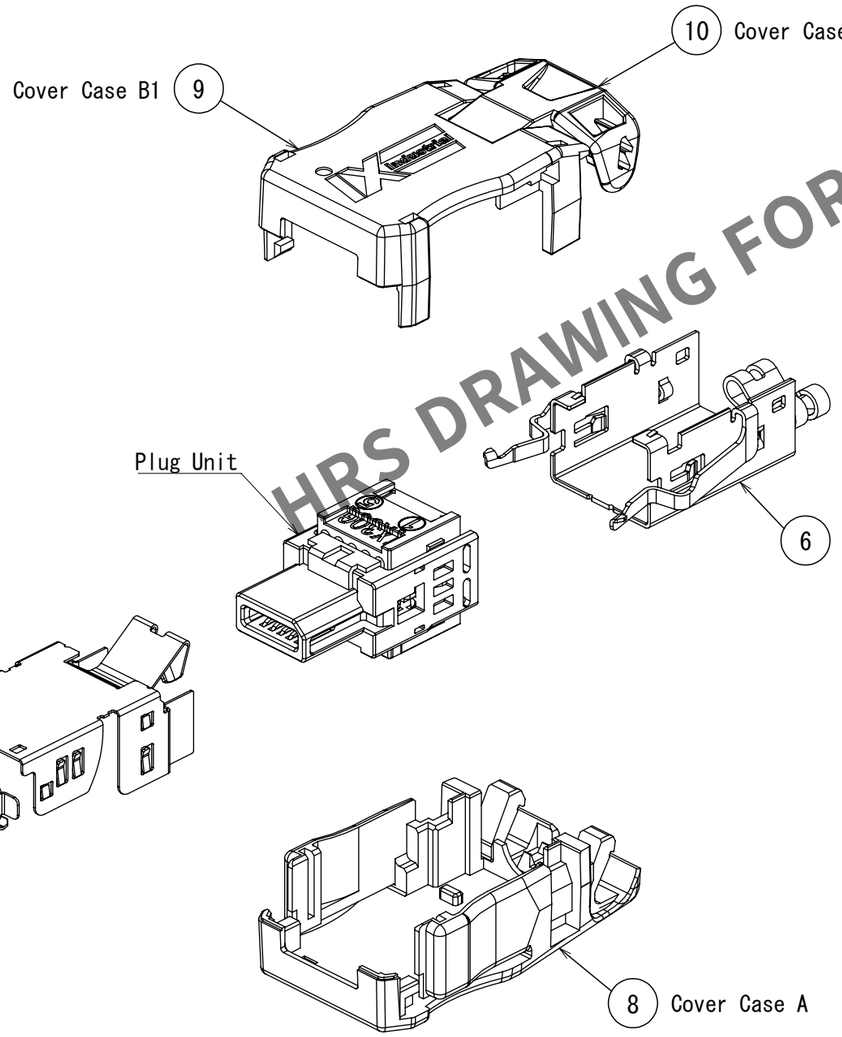
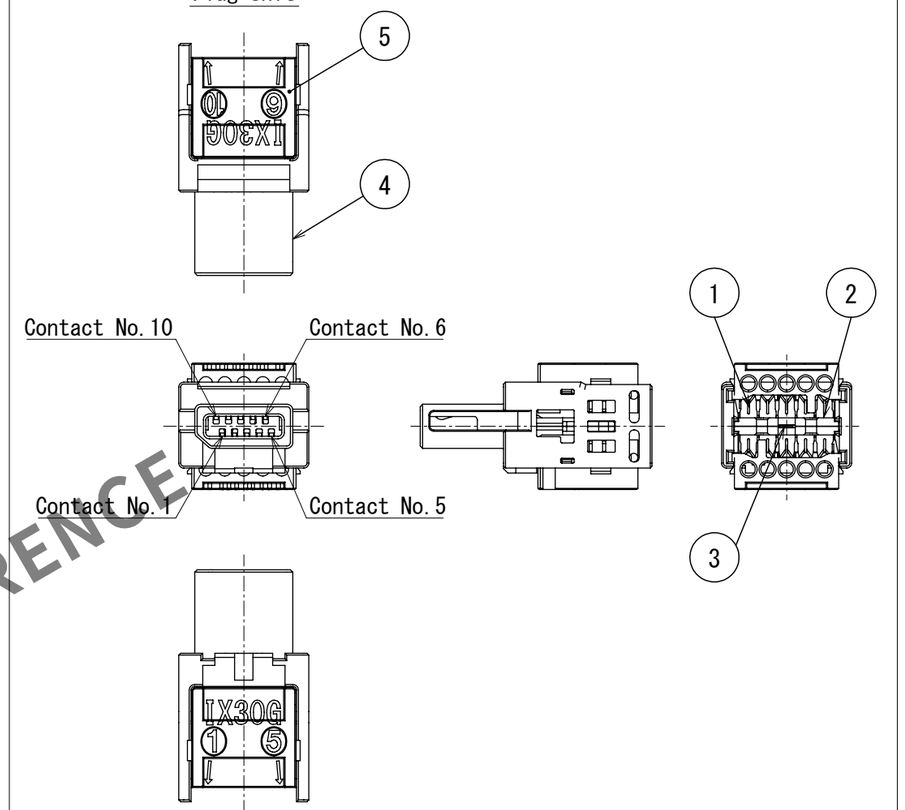
3 Shield Shell Delivery Form



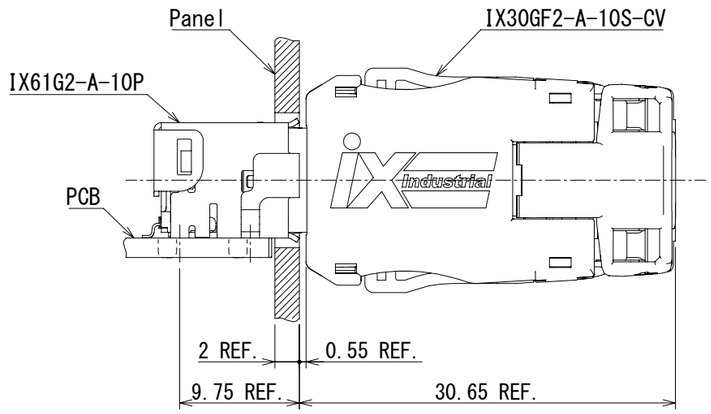
Product Structure



Plug Unit



Mated Condition



HRS DRAWING FOR REFERENCE

HRS	DRAWING NO.	EDCX-408882-00-00
	PART NO.	IX3*GF2-*-*S-CV
	CODE NO.	⚠1 CL251
		⚠1 3/4

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4. Product Number Structure

IX 30GF 2 - A - 10 S - CV (##)
① ② ③ ④ ⑤⑥ ⑦ ⑧

①Series Name	IX Series
②Assembly Method	30GF : IDC Field Assembly (AWG#26 to 28, Insulator Outer Diameter ø0.95 to 1.05mm) 31GF : IDC Field Assembly (AWG#24 to 25, Insulator Outer Diameter ø1.1 to 1.25mm)
③Version	2 : Ver.2
④Mating Key	A : Type A/For Ethernet B : Type B/For except Ethernet
⑤Number of Positions	10 : 10 pos.
⑥Contact Gender	S:Female Contact
⑦Plug Cover Cabling Direction	CV : Straight
⑧Plating Specifications	Blank : Gold Plated (01) : Palladium-Nickel Plated+Gold Plated

Applicable Products List

Product Name	HRS No.
IX30GF2-A-10S-CV	CL0251-0167-0-00
IX31GF2-A-10S-CV	CL0251-0012-0-00
IX30GF2-B-10S-CV	CL0251-0186-0-00
IX31GF2-B-10S-CV	CL0251-0187-0-00

5. Refer to the other drawing for Plating Specification (01).

HRS DRAWING FOR REFERENCE

HRS	DRAWING NO.	EDCX-408882-00-00
	PART NO.	IX3*GF2-*-*S-CV
	CODE NO.	△1 CL251
		△1 4/4