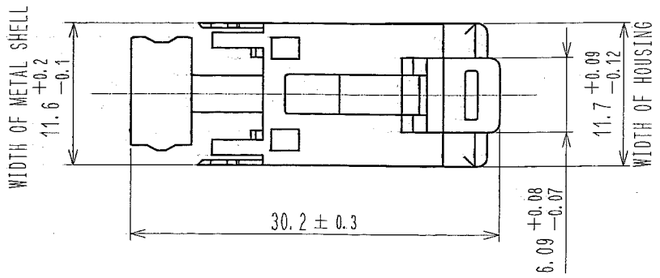
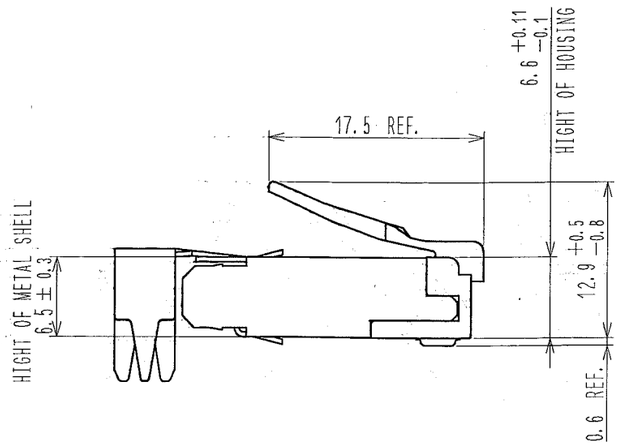
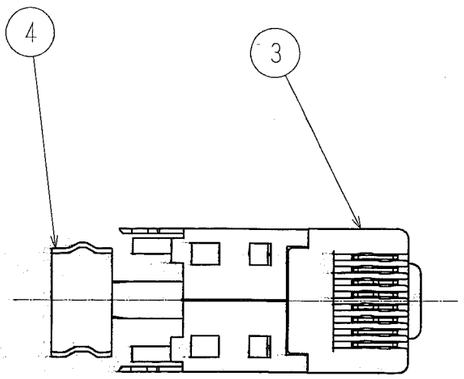
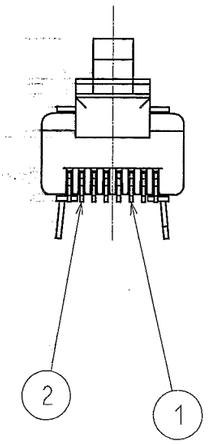
	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					..	△					..
△					..	△					..
△					..	△					..

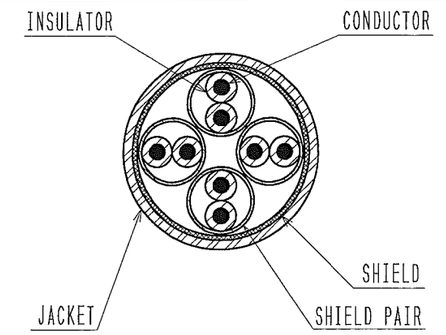






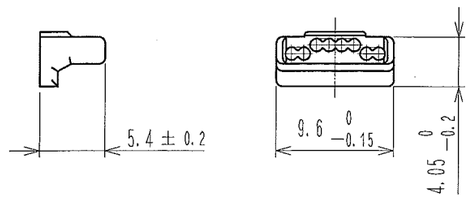


APPLICABLE CABLE



CONDUCTOR	AWG#24 TO #26
INSULATOR OUTER DIAMETER	φ0.9 TO φ1.0
JACKET OUTER DIAMETER	φ5.8 TO φ6.0

(5) ATTACHED



NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
1~2	PHOSPHOR BRONZE	CONTACT: Au 1.27μm min OTHER: Au 0.03μm min UNDER: Ni 2μm min	4	POLYCARBONATE	(CLEAR YELLOW)
			3	STAINLESS STEEL	Ni 0.5μm min
			2	POLYCARBONATE	(CLEAR YELLOW)

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
DRAWING FOR REFERENCE OR PRELIMINARIES	M. Itano '08.07.18	M. Itano '08.07.18	H. Yamaha '08.07.18	Y. Enomi 08.07.18	ENG 08.7.18 DEPT

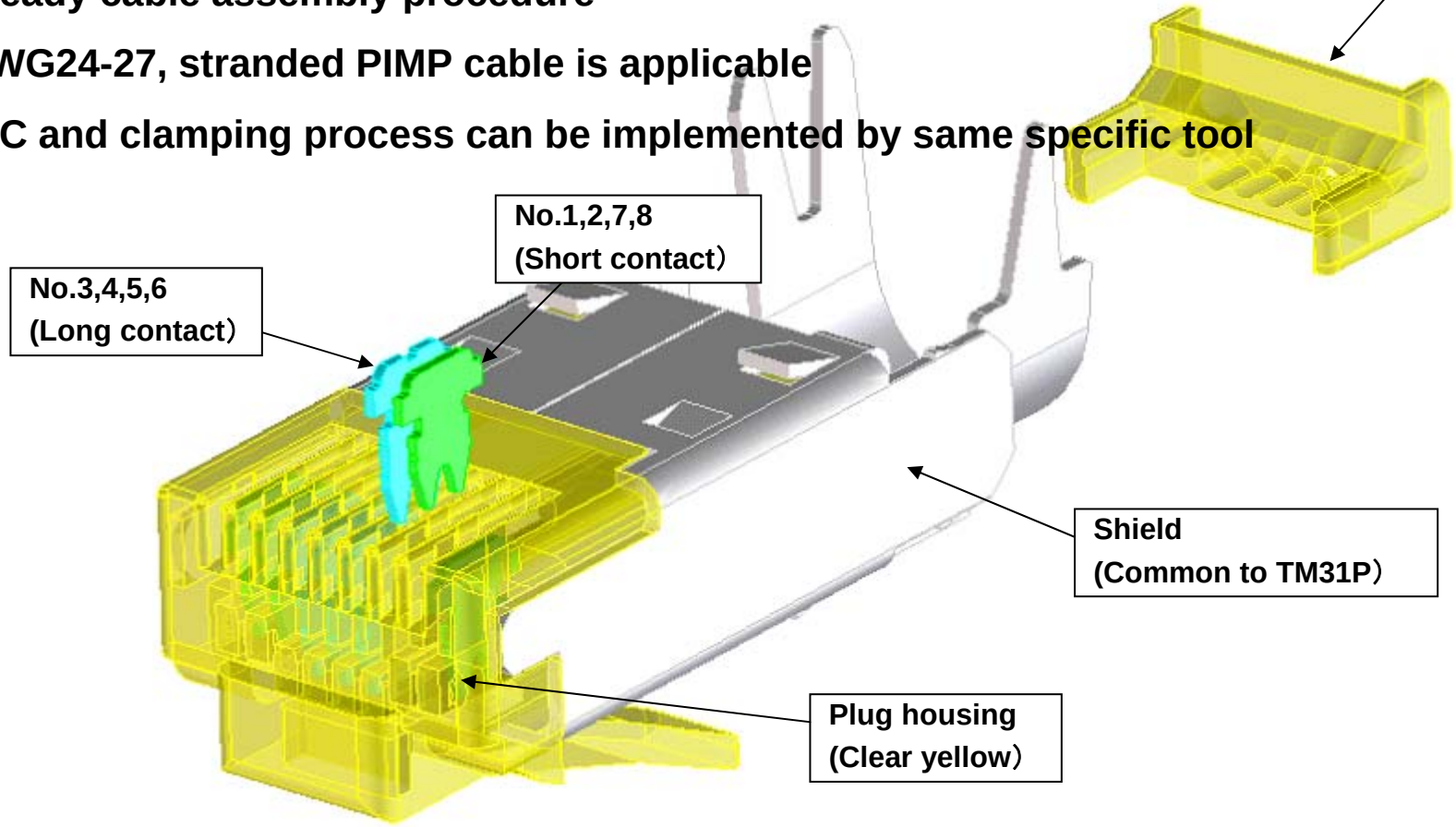
SCALE 2 : 1	DRAWING NO. TEDC3-123817	PART NO. TM31P-88P	
UNITS mm	HRS HIROSE ELECTRIC CO., LTD	CODE NO. CL222	1/1

FORM NO. 229 Q

TO
Q

Plug ：TM31P-TM-88P

1. Plug design satisfying CAT6a performance
   (No.1,2,7,8⇒short contacts /No.3,4,5,6⇒long contacts)
2. Simplified assembly method by guide plate
3. Steady cable assembly procedure
4. AWG24-27, stranded PIMP cable is applicable
5. IDC and clamping process can be implemented by same specific tool

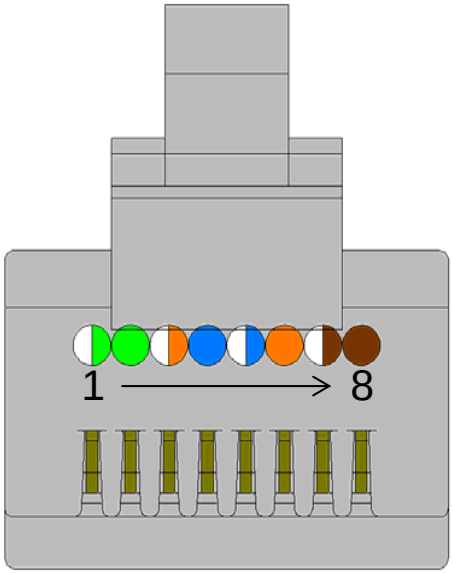


Plug ：TM31P-TM-88P

Plug design satisfying CAT6a requirements

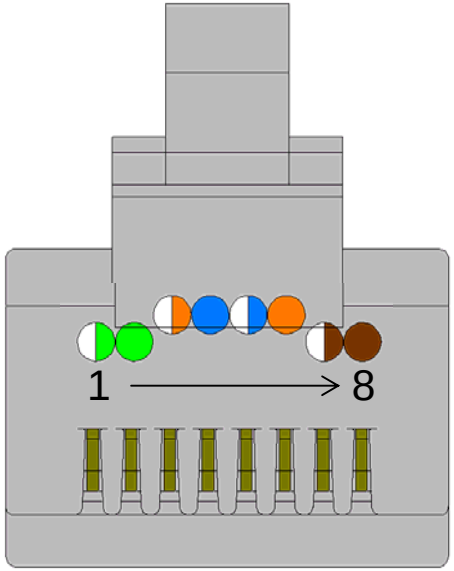
1) Unique contact arrangement

CAT6 Plug (TM21DP-TM-88P)



Improved Transmission Characteristics

CAT6a Plug (TM31P-TM-88P)



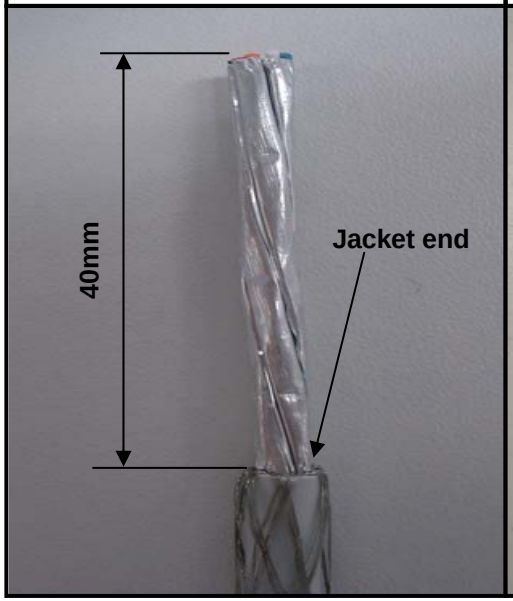
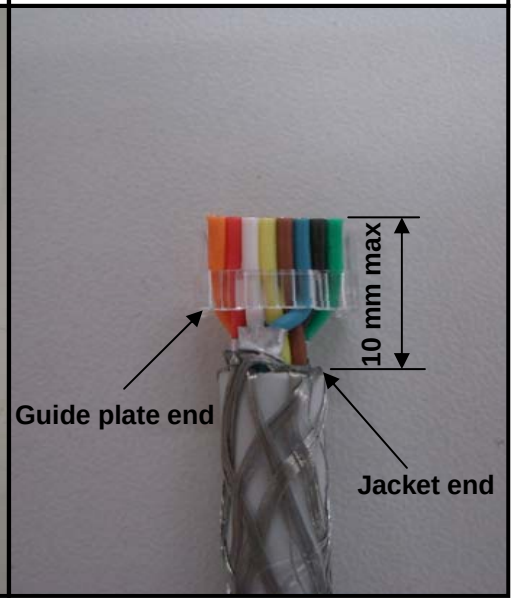
Limited performance due to the contact arrangement in a single row

The contact arrangement in two rows makes performance improved (No3, 4, 5, 6 contacts are isolated from No1, 2, 7, 8 contacts)

Plug ：TM31P-TM-88P

Cable assembly method to have CAT6a performance

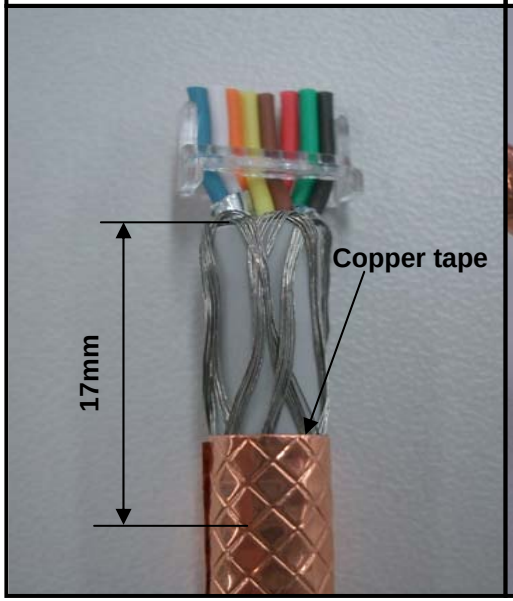
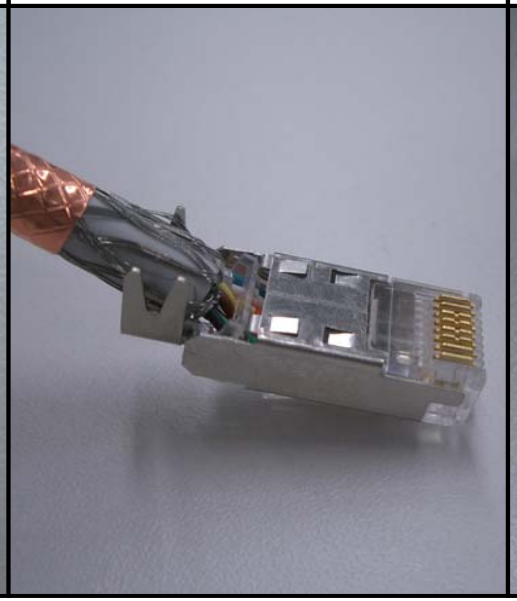
Plug design makes it possible for users to lengthen jacket end and have steady CAT6a performance.

Step1	*Step2*	*Step3*
		

Plug ：TM31P-TM-88P

Cable assembly method to have CAT6a performance

Plug design makes it possible for users to lengthen jacket end and have steady CAT6a performance.

Step4	*Step5*	*Step6*
		

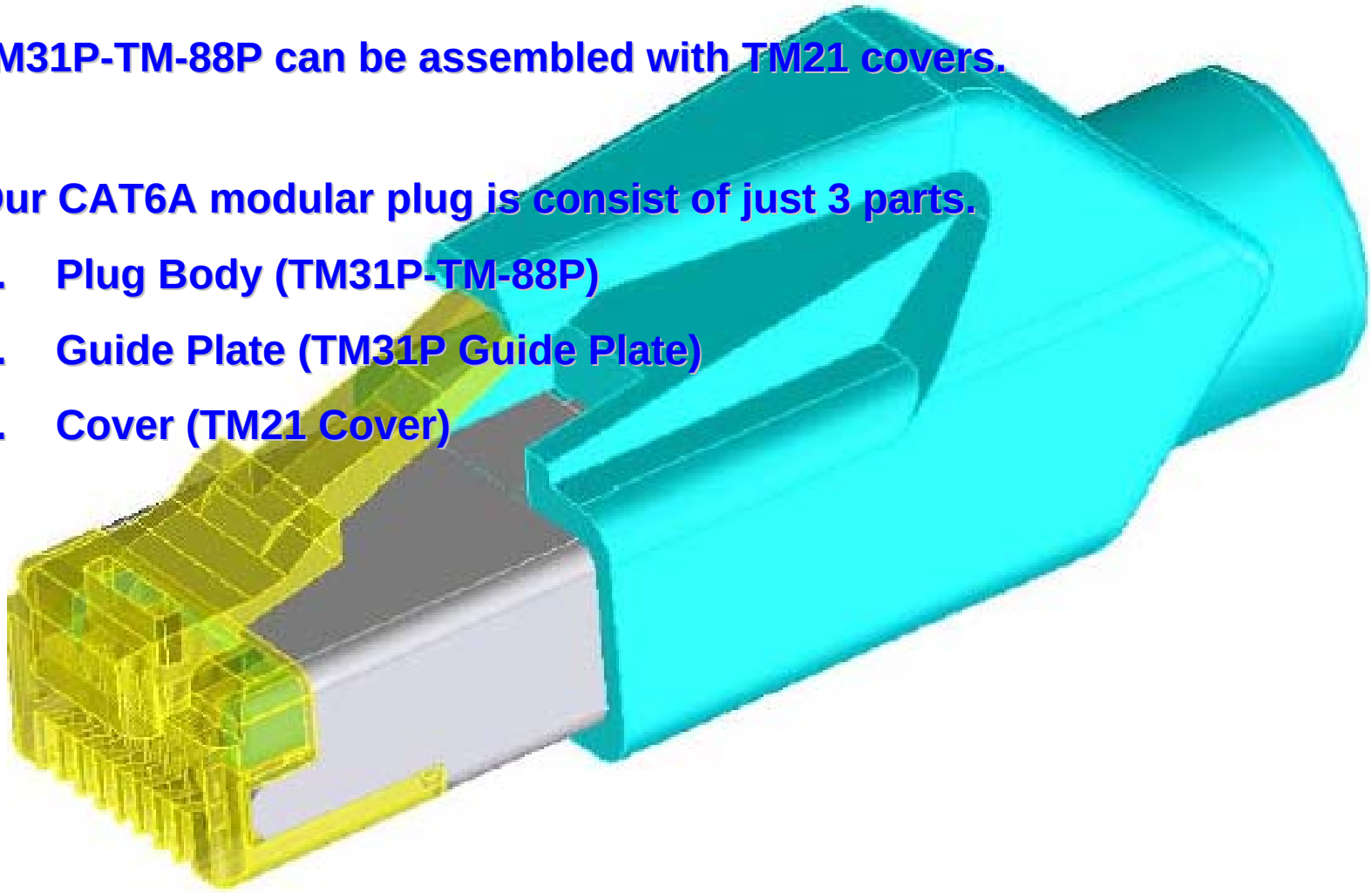
Plug ：TM31P-TM-88P

Outer Appearance of TM31P-TM-88P with cover

TM31P-TM-88P can be assembled with TM21 covers.

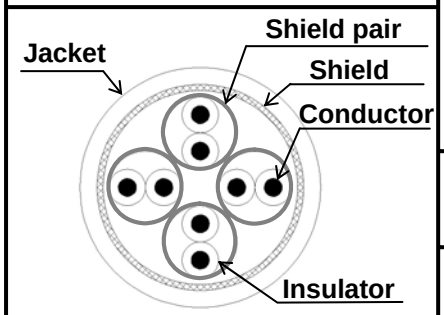
Our CAT6A modular plug is consist of just 3 parts.

1. **Plug Body (TM31P-TM-88P)**
2. **Guide Plate (TM31P Guide Plate)**
3. **Cover (TM21 Cover)**



Plug ：TM31P-TM-88P

Applicable Cable

PIMF cable		
	Conductor	AWG 24 stranded wire
		AWG 27 stranded wire
	O/D of Insulator	ϕ0.9 to ϕ1.0
	O/D of Jacket	ϕ5.8 to ϕ 6.0

Cable Assembly Tool

Cable Assembly Tool of TM21DP-TM-88P can be also used for TM31P-TM-88P

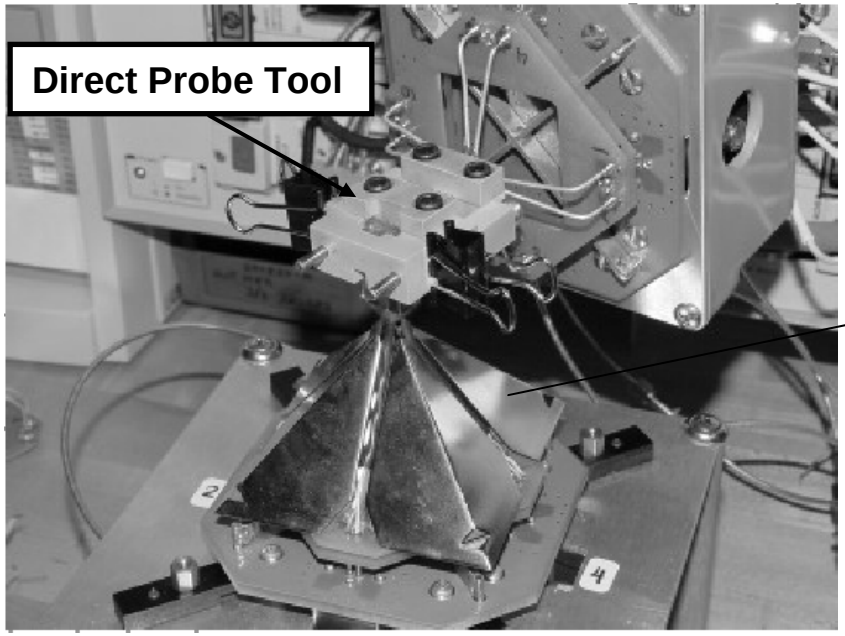
Plug ：TM31P-TM-88P

CAT6a Performance Measurement : Plug single

Measurement Method : Direct Probe Method

Measurement Equipment : Network Analyzer (Agilent E8357A)

Frequency : 10～500MHz



TM31P Model sample