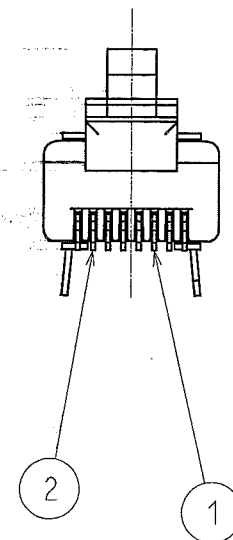
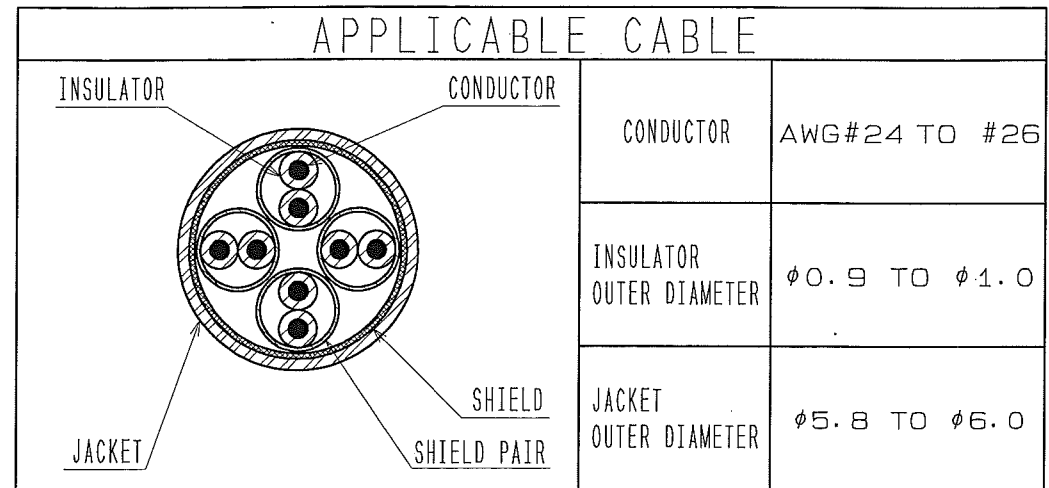
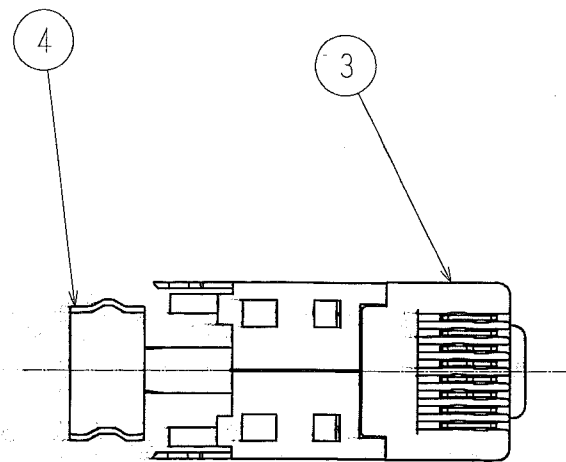
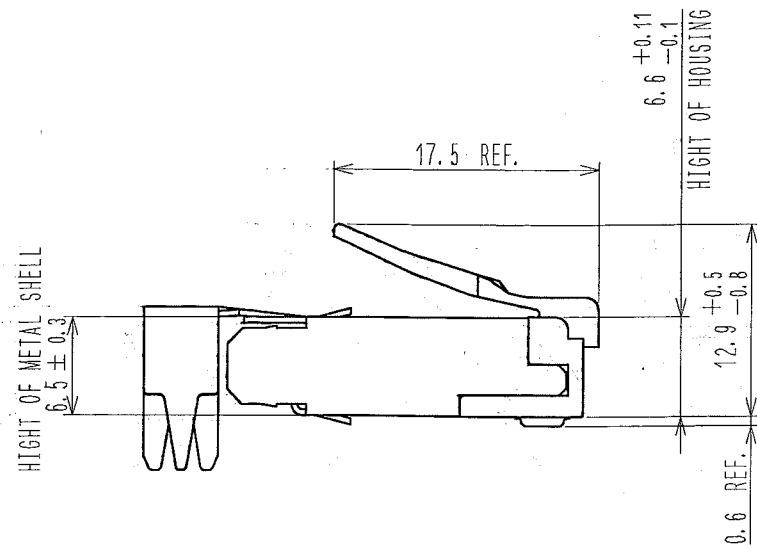
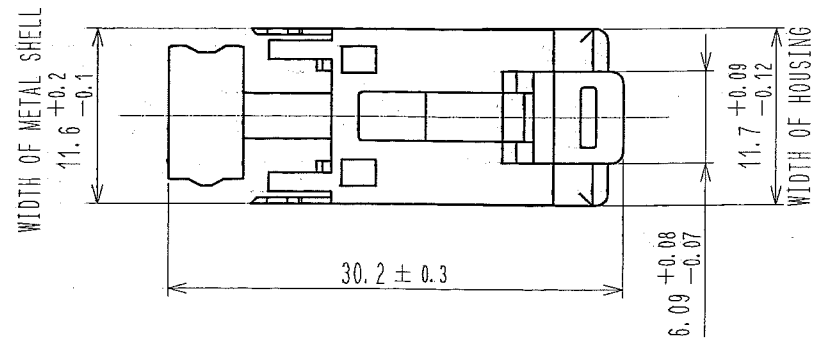
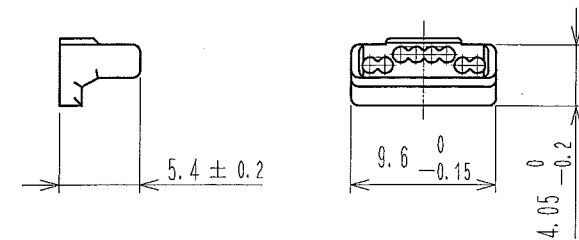


| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|----|------|------|-------|--------------------------|----|------|------|
| △ | | | | .. | △ | | | | .. |
| △ | | | | .. | △ | | | | .. |
| △ | | | | .. |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



5 ATTACHED



| 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) | |
| NO. | MATERIAL | FINISH, REMARKS | NO. | MATERIAL | FINISH, REMARKS |

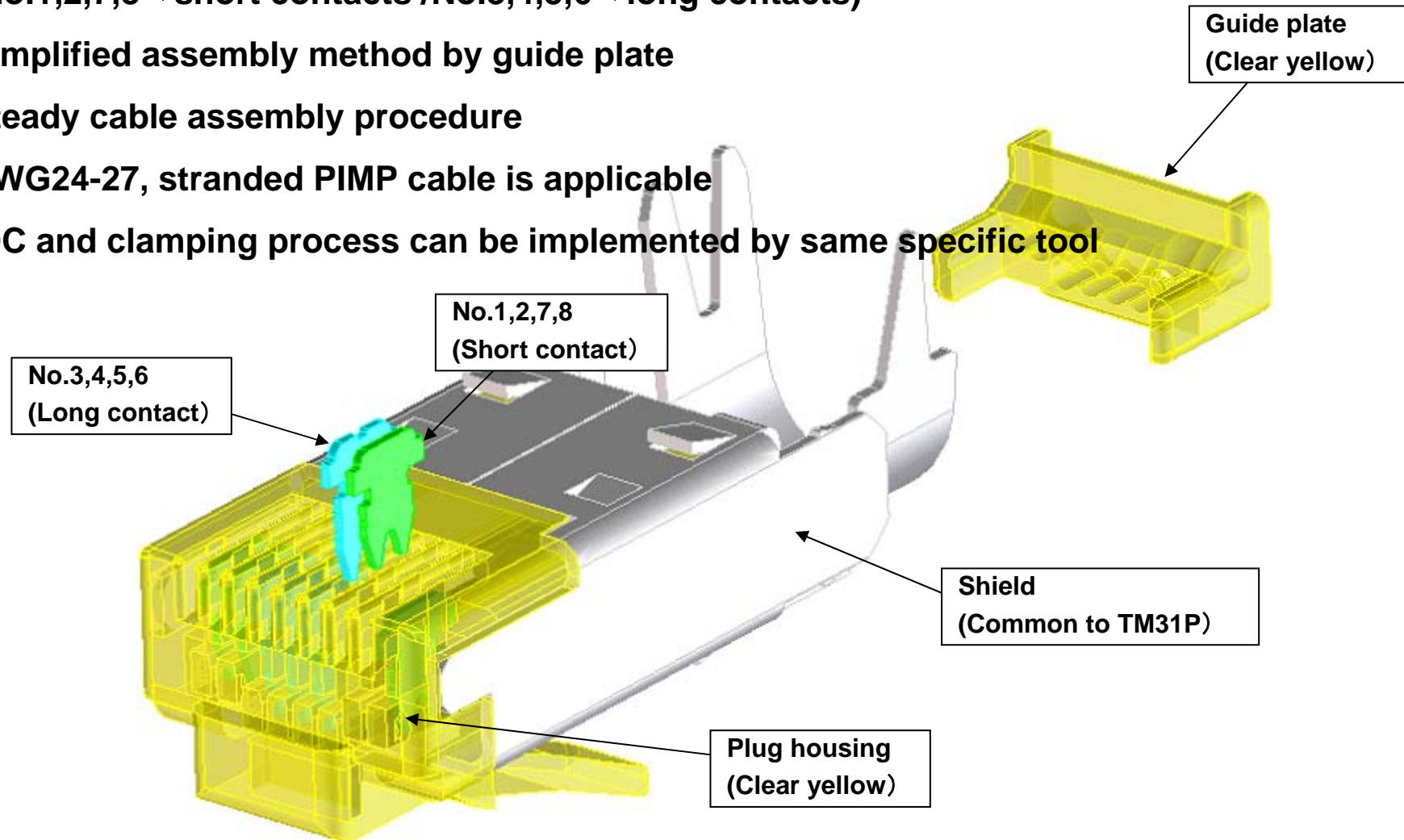
| | | | | | |
|----------------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------|
| CODE NO.(OLD) | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| DRAWING FOR REFERENCE OR PRELIMINARIES | <i>M. Itano</i> '08.07.18 | <i>M. Itano</i> '08.07.18 | <i>H. Yamada</i> '08.07.18 | <i>Y. Enomi</i> '08.07.18 | ENG '08.7.18 DEPT |
| SCALE 2:1 | DRAWING NO. TEDC3-123817 | PART NO. TM31P-88P | CODE NO. CL222 | 1/1 | |
| UNITS mm | HRS HIROSE ELECTRIC CO., LTD | | | | |

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



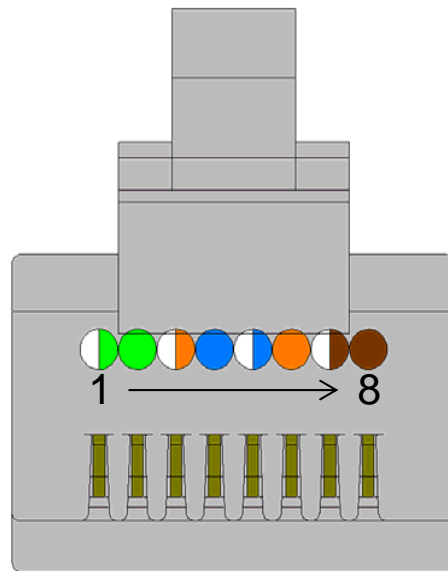
Plug : TM31P-TM-88P



Plug design satisfying CAT6a requirements

1) Unique contact arrangement

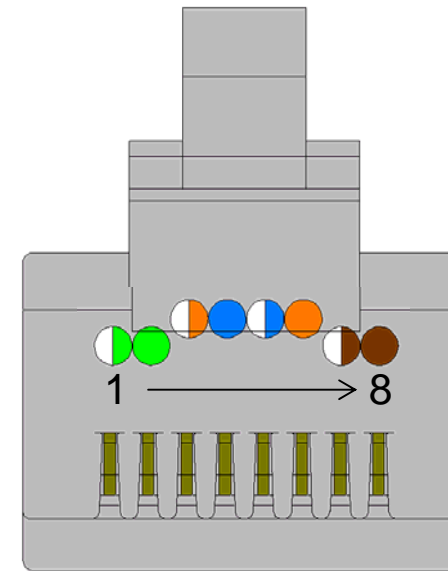
CAT6 Plug (TM21DP-TM-88P)



Limited performance due to the contact arrangement in a single row

Improved Transmission Characteristics

CAT6a Plug (TM31P-TM-88P)



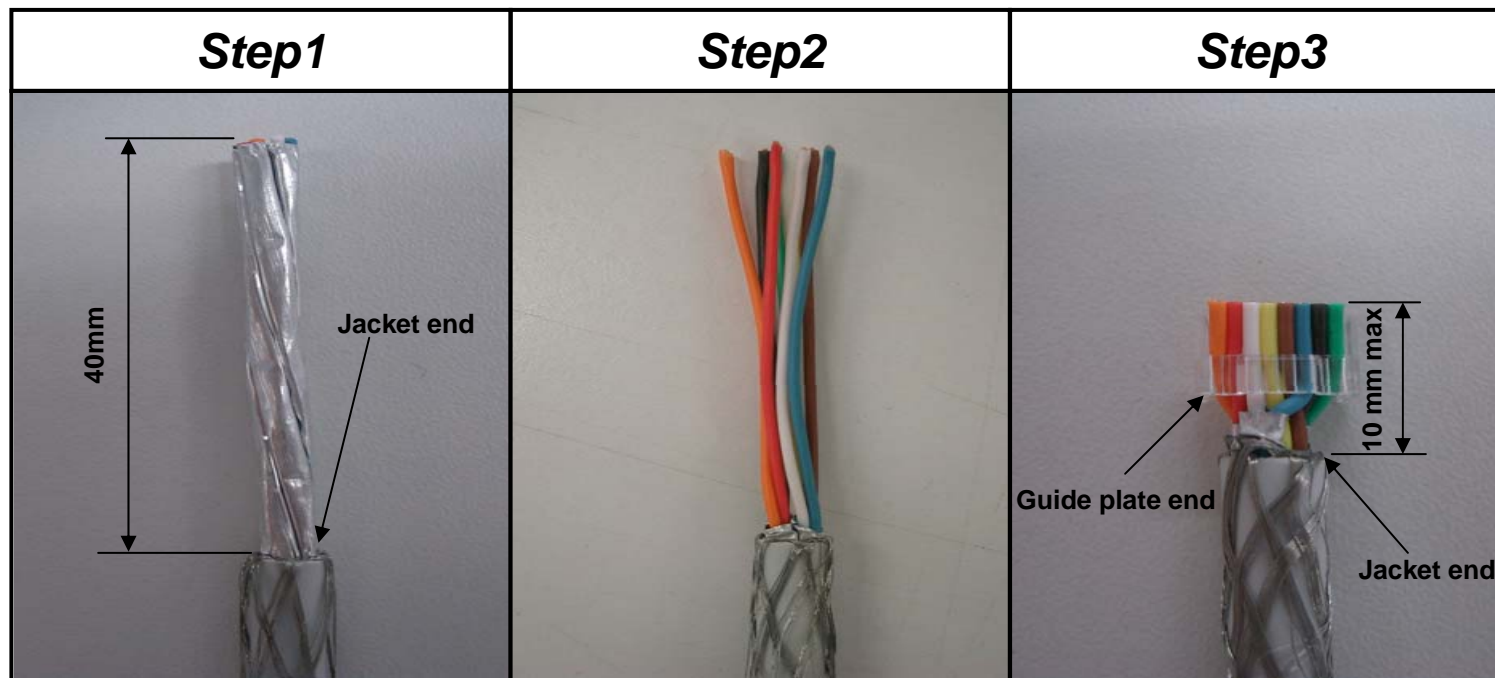
The contact arrangement in two rows makes performance improved (No3, 4, 5, 6 contacts are isolated from No1, 2, 7, 8 contacts)

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.

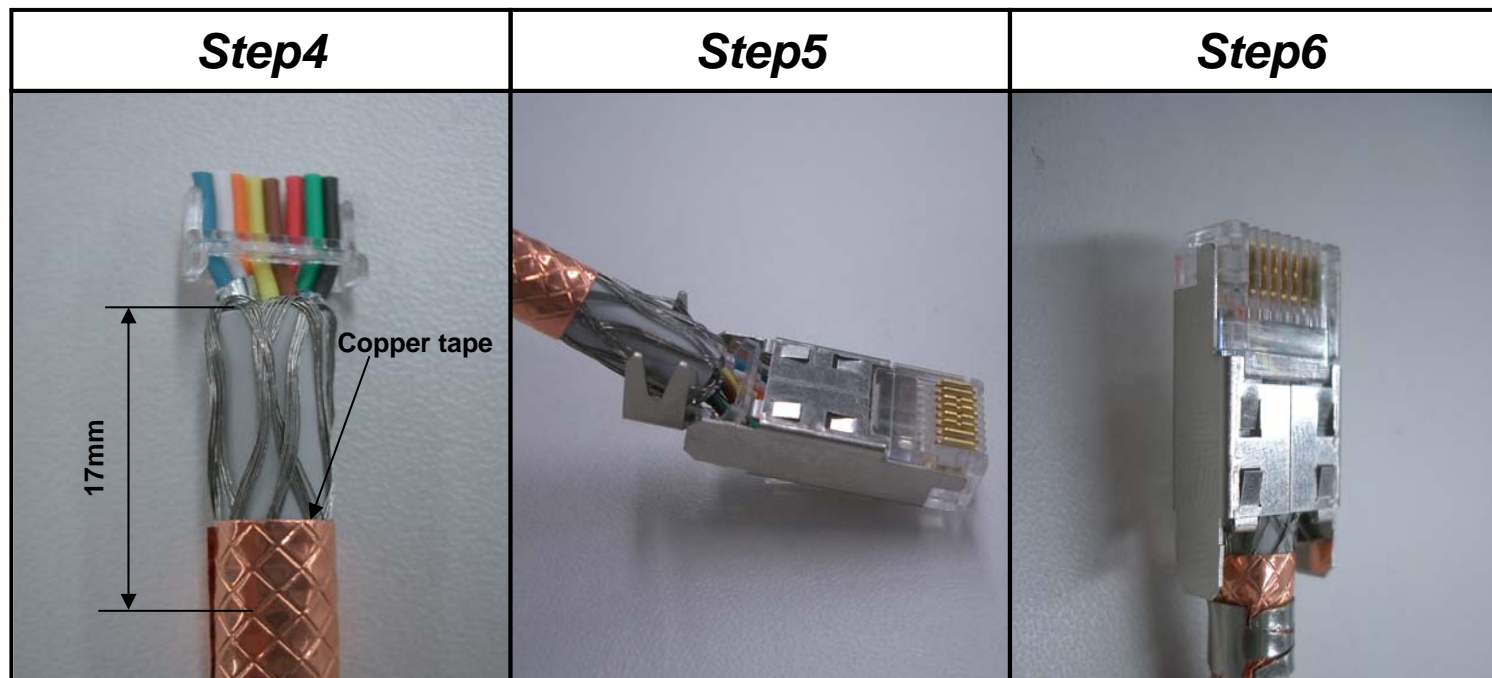


Plug : TM31P-TM-88P



Cable assembly method to have CAT6a performance

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



Plug : TM31P-TM-88P

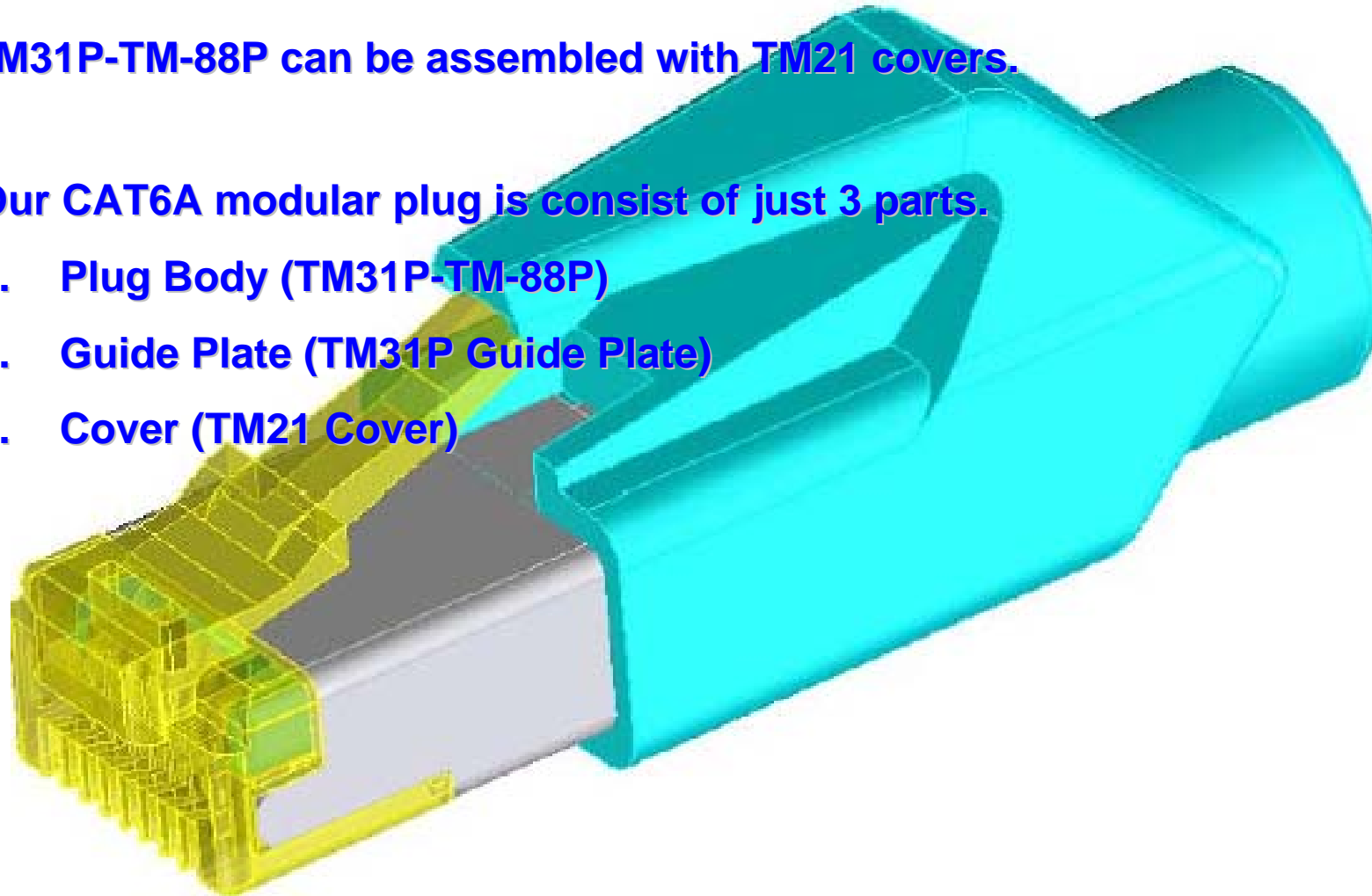


Outer Appearance of TM31P-TM-88P with cover

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

Our CAT6A modular plug is consist of just 3 parts.

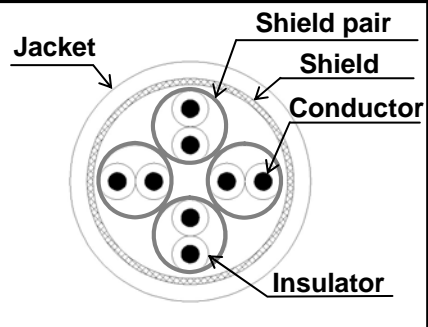
1. Plug Body (TM31P-TM-88P)
2. Guide Plate (TM31P Guide Plate)
3. Cover (TM21 Cover)



Plug : TM31P-TM-88P



Applicable Cable

| | | |
|-----------------------------------------------------------------------------------|-------------------------|-----------------------------|
|  | Conductor | AWG 24 stranded wire |
| | | AWG 27 stranded wire |
| | O/D of Insulator | ϕ 0.9 to ϕ 1.0 |
| | O/D of Jacket | ϕ 5.8 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 TM31P Model sample

Measurement Method : Direct Probe Method
Measurement Equipment : Network Analyzer
(Agilent E8357A)

Frequency : 10~500MHz

