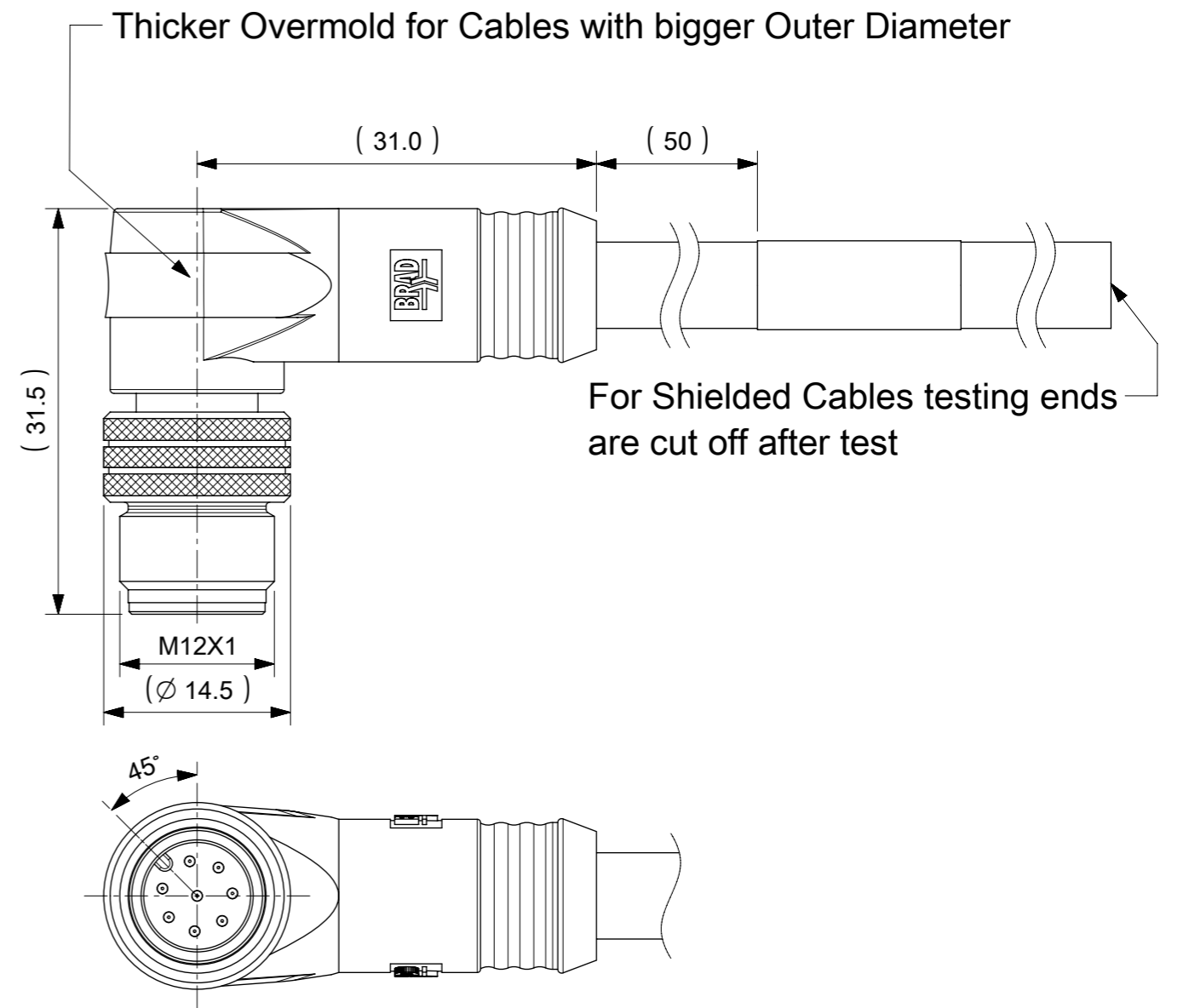
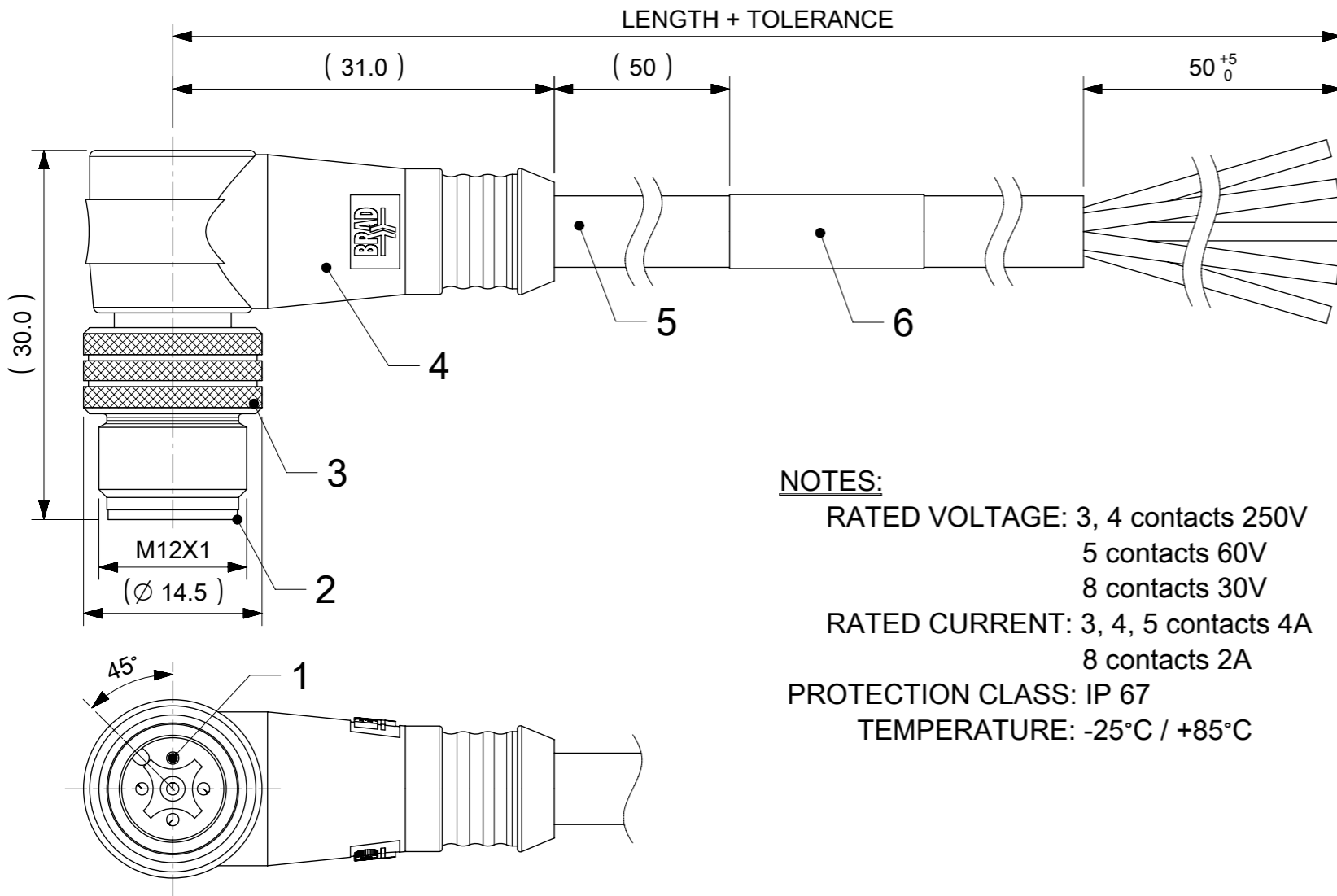


MALE PLUG M12 90° ANGLED



NOTES:

- RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
- RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A
- PROTECTION CLASS: IP 67
- TEMPERATURE: -25°C / +85°C

CONTACTS POSITION FRONT VIEW:

| 3 CONTACTS | | 4 CONTACTS | | 5 CONTACTS | | 8 CONTACTS | |
|------------|-------|------------|-------|------------|-------|------------|--------|
| | | | | | | | |
| PIN | WIRE | PIN | WIRE | PIN | WIRE | PIN | WIRE |
| 1 | BROWN | 1 | BROWN | 1 | BROWN | 1 | WHITE |
| 2 | --- | 2 | WHITE | 2 | WHITE | 2 | BROWN |
| 3 | BLUE | 3 | BLUE | 3 | BLUE | 3 | GREEN |
| 4 | BLACK | 4 | BLACK | 4 | BLACK | 4 | YELLOW |
| 5 | --- | 5 | --- | 5 | GREY | 5 | GREY |
| | | | | | | 6 | PINK |
| | | | | | | 7 | BLUE |
| | | | | | | 8 | RED |

CODING REQUIRED TO IEC 61076-2-101

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|------|---------------|-------------------------|-------------|----------------------|
| 6 | 1 | LABEL YELLOW | VINYL | --- |
| | - | PRINTING FOR CABLES lxx | --- | --- |
| 5 | - | CABLE | SEE SHEET 2 | --- |
| 4 | - | OVERMOLDING BLACK | TPU | --- |
| 3 | 1 | COUPLING NUT MALE | BRASS | NICKEL |
| 2 | 1 | INSERT MALE BLACK | PUR | --- |
| 1 | 3 / 4 / 5 / 8 | CONTACT M12 MALE | BRASS | SELECTIVE Au OVER Ni |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS: mm SCALE: 2:1

GENERAL TOLERANCES (UNLESS SPECIFIED):
 ANGULAR TOL ± 1.0°
 4 PLACES ±
 3 PLACES ±
 2 PLACES ± 0.05
 1 PLACE ± 0.1
 0 PLACES ± 0.2

EC NO: 733771
 DRWN: LIKITV 2023/01/13
 CHK'D: GGA 2023/02/24
 APPR: GGA 2023/02/24

INITIAL REVISION:
 DRWN: JMARSZALEK 2016/01/14
 APPR: RSILLER 2016/04/08

THIRD ANGLE PROJECTION

DRAWING: A3-SIZE SERIES: 120065 MATERIAL NUMBER: SEE TABLE CUSTOMER: GENERAL MARKET SHEET NUMBER: 1 OF 3

DOCUMENT NUMBER: 1200658327 DOC TYPE: PSD DOC PART: 000 REVISION: A3

molex

CSE M12 XP AC MA RA XM SE UNSH

PRODUCT CUSTOMER DRAWING

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

8 0 X 0 0 7 X X X X X X X X

80=M12x1
Single ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
007=Plug Male
90° Angled

Cable type: See Table

Units:
M=Meter
C=Centimeter

Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

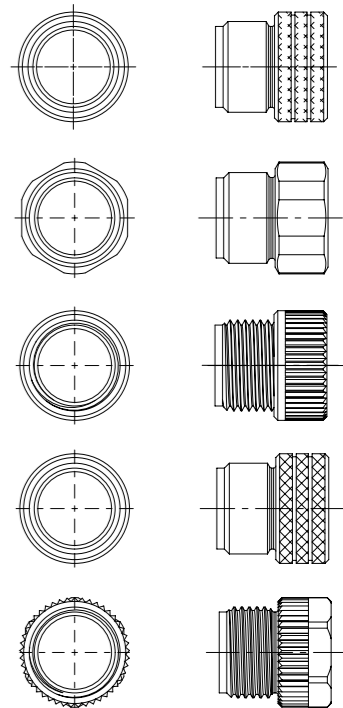
Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow TPU for cables A09,S19,S20,S26
Blank=Yellow TPE-E for cables K03,K05
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Delrin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

OPTIONS

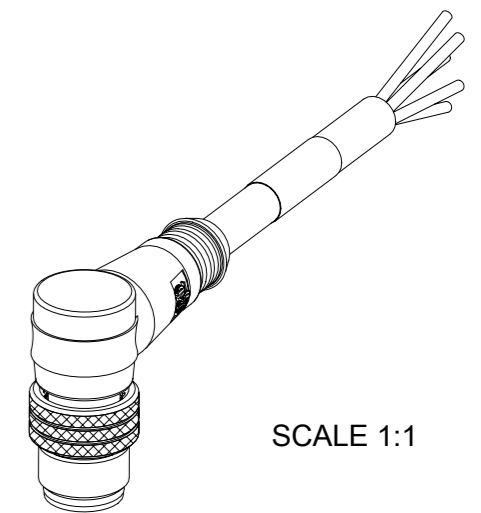
H= 2 pcs. of I/D Carrier
PVC Transparent
(Cables Ixx & P82 always
with 2 pcs. of I/D Carrier
even if no H in
Engineering No.)

COUPLING NUTS



CABLE INFORMATION (for more information see Cable Data Sheet).

| CABLE TYPE | NO. OF WIRES | CROSS SECTION | CABLE JACKET | UL | CSA | STATIC: TEMP. / BENDING RADIUS | DYNAMIC: TEMP. / BENDING RADIUS | DRAG CHAIN | SHIELD |
|------------|--------------|---------------------|----------------|-----------------------|-----------------------|--------------------------------|---------------------------------|------------|--------|
| E13 | 3 | 18AWG | PVC YELLOW | UL 2661/1731 | I/II A/B 80°C/300V | - | - | - | - |
| E52 | 3 / 4 / 8 | 0.34mm ² | PVC GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | - |
| H69 | 4 | 0.20mm ² | PUR GREY LS0H | - | - | - | - | - | - |
| I02 | 3 / 4 / 8 | 0.25mm ² | PVC CEI GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | - |
| I03 | 3 / 4 / 5 | 0.34mm ² | PVC CEI GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | - |
| I20 | 3 / 4 | 0.34mm ² | PVC CEI GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | YES |
| K05 | 3 / 4 / 5 | 0.34mm ² | TPE YELLOW | UL ITC E195601 or PLC | I/II A/B 90°C/300V | - | - | - | - |
| P12 | 3 / 5 | 0.50mm ² | PUR BLACK | - | - | -30°C to +90°C | -5°C to +90°C | - | - |
| P20 | 3 / 4 / 5 | 0.34mm ² | PUR BLACK LS0H | - | - | -30°C to +80°C | - | - | YES |
| P82 | 3 / 4 / 5 | 0.34mm ² | PUR IRR ORANGE | - | - | -50°C to +105°C, 5xO.D. | -40°C to +105°C, 7.5xO.D. | - | - |
| S20 | 3 / 4 / 5 | 0.34mm ² | PVC YELLOW | UL 2661/1731 | C22.2 II A 105°C/300V | -30°C to +105°C | - | - | YES |



CABLE LENGTH TOLERANCES

| OVER | UP TO AND INCLUDING | TOLERANCES |
|---------|---------------------|------------------------|
| 0 | 305mm | +19mm |
| 305mm | 915mm | +45mm |
| 915mm | 1830mm | +56mm |
| 1830mm | 3660mm | +89mm |
| 3660mm | 7320mm | +165mm |
| 7320mm | 14640mm | +317mm |
| 14640mm | 30500mm | +610mm |
| 30500mm | > | +2% of finished length |

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| | | | | | | |
|--|--------|---|--------------------------------|----------------------------|-----------------|----------------|
| DIMENSION UNITS | SCALE | CURRENT REV DESC: REMOVED OBSOLETE PART NUMBER AS PER PCN#510806. | molex | | | |
| mm | 1:1 | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | | CSE M12 XP AC MA RA XM SE UNSH | | | |
| ANGULAR TOL | ± 1.0° | EC NO: 733771 | PRODUCT CUSTOMER DRAWING | | | |
| 4 PLACES | ± | DRWN: LIKITV | 2023/01/13 | DOCUMENT NUMBER | | |
| 3 PLACES | ± | CHK'D: GGA | 2023/02/24 | 1200658327 | PSD 000 A3 | |
| 2 PLACES | ± 0.05 | APPR: GGA | 2023/02/24 | DOC TYPE DOC PART REVISION | | |
| 1 PLACE | ± 0.1 | INITIAL REVISION: | | SHEET NUMBER | | |
| 0 PLACES | ± 0.2 | DRWN: JMARSZALEK | 2016/01/14 | 2 OF 3 | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER |
| | | | A3-SIZE | 120065 | SEE TABLE | GENERAL MARKET |

PART LIST

| No. | Part No. | Engineering No. | Cable Length |
|-----|------------|-----------------|--------------|
| 1 | 1200060293 | 803007S20M050 | 5m |
| 2 | 1200060587 | 804007H69M020 | 2m |
| 3 | 1200060589 | 804007I03M020 | 2m |
| 4 | 1200060599 | 804007S20M100 | 10m |
| 5 | 1200062086 | 804007S20M050 | 5m |
| 6 | 1200062304 | 805007P12M015 | 1,5m |
| 7 | 1200063831 | 804007E52M100 | 10m |
| 8 | 1200658229 | 803007E13M050 | 5m |
| 9 | 1200658327 | 805007I03M015 | 1,5m |
| 10 | 1200658521 | 805007P12M006 | 0,6m |
| 11 | 1200658522 | 805007P12M020 | 2m |
| 12 | 1200658596 | 803007I03M010 | 1m |
| 13 | 1200658597 | 803007I03M040 | 4m |
| 14 | 1200658598 | 803007I03M100 | 10m |
| 15 | 1200658602 | 804007I03M010 | 1m |
| 16 | 1200658603 | 804007I03M030 | 3m |
| 17 | 1200658604 | 804007I03M040 | 4m |
| 18 | 1200658963 | 804007S20M1001 | 10m |
| 19 | 1200658964 | 804007S20M0501 | 5m |
| 20 | 1200659204 | 805007P12M050 | 5m |
| 21 | 1200659375 | 804007S20M350 | 35m |

| | | | | | | | | | | |
|---|-------|---|---------|--------|--------------------------------|----------------|--------------|----------|----------|----------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | |
| DIMENSION UNITS | SCALE | CURRENT REV DESC: REMOVED OBSOLETE PART NUMBER AS PER PCN#510806. | | | molex | | | | | |
| mm | 1:1 | | | | | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | | CSE M12 XP AC MA RA XM SE UNSH | | | | | |
| ANGULAR TOL ± 1.0 ° | | | | | PRODUCT CUSTOMER DRAWING | | | | | |
| 4 PLACES ± | | EC NO: 733771 | | | 2023/01/13 | | | | | |
| 3 PLACES ± | | DRWN: LIKITV | | | 2023/02/24 | | | | | |
| 2 PLACES ± 0.05 | | CHK'D: GGA | | | 2023/02/24 | | | | | |
| 1 PLACE ± 0.1 | | APPR: GGA | | | | | | | | |
| 0 PLACES ± 0.2 | | INITIAL REVISION: | | | DOCUMENT NUMBER | | | | | |
| | | DRWN: JMARSZALEK | | | 1200658327 | | | DOC TYPE | DOC PART | REVISION |
| | | APPR: RSILLER | | | PSD | | | 000 | A3 | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER | | | |
| | | | A3-SIZE | 120065 | SEE TABLE | GENERAL MARKET | 3 OF 3 | | | |

| | | | | |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2023/02/24 | 12:55:42 |
|-----------------|----|--------------|------------|----------|