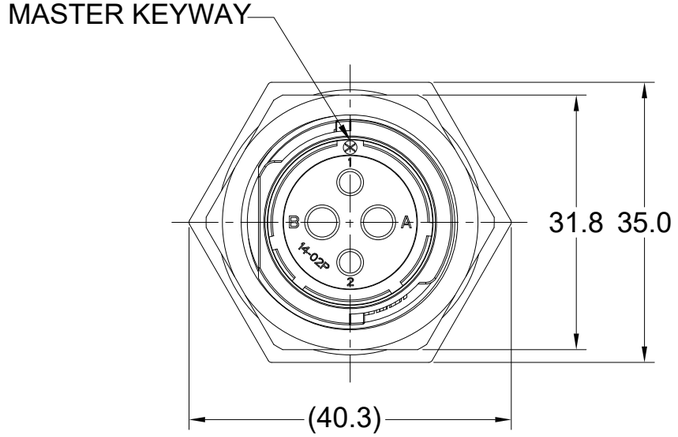
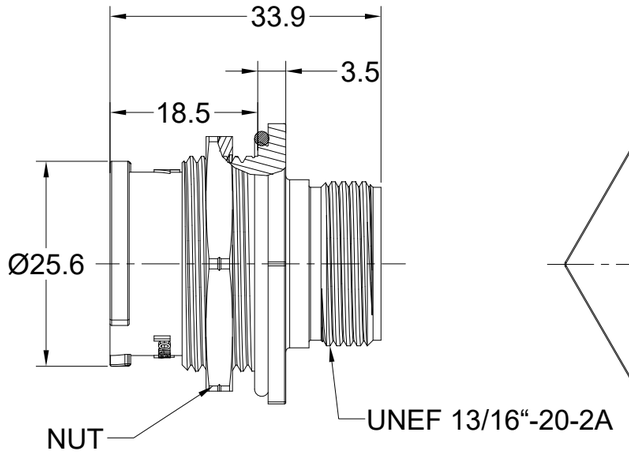
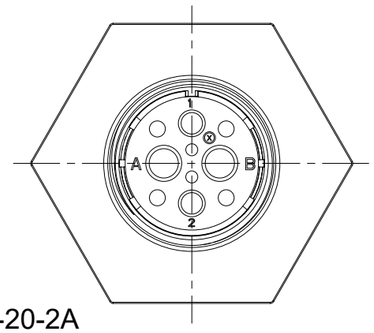
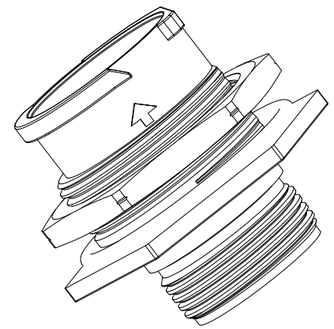
| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | -- | FIRST RELEASED | NOV-23-2021 | BLINK | TOMMY |
| A2 | -- | ADD IP68 | APR-26-2023 | JUN | TOMMY |
| A3 | -- | UPDATED SUITABLE CONTACT NOTE | MAY-16-2023 | RO | RO |



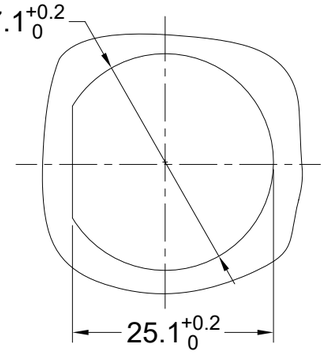



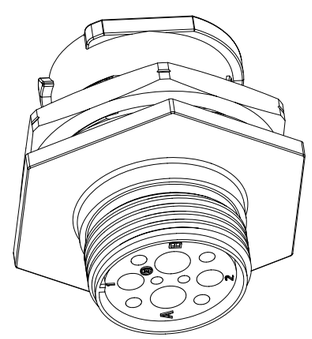
NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATERIAL:
   SHELL: THERMOPLASTIC, BLACK, UL94 V-0.
   INSERT: THERMOPLASTIC, BLACK, UL94 V-0.
   O-RING: SILICONE RUBBER, BLACK.
   JAM NUT: ALUMINIUM ALLOY, BLACK ANODIZING.
2. SPECIFICATIONS:
   2.1 RATED CURRENT: SEE TABLE 2.
   2.2 RATED VOLTAGE: SEE TABLE 2.
   2.3 OPERATING TEMPERATURE: -40°C~125°C.
   2.4 DIELECTRIC WITHSTANDING VOLTAGE: SEE TABLE1.
   2.5 INSULATION RESISTANCE: 5000 MEGOHMS MIN.
   2.6 IP--CLASS: IP67,IP68 AND IP69K IN MATED CONDITION.
   2.7 MATING CYCLES DURABILITY: 500 CYCLES MIN.
   2.8 RoHS COMPLIANT.
3. SUITABLE CONTACTS : SEE TABLE 2.
4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.




RECOMMENDED PANEL
MOUNTING HOLE

RECOMMENDED PANEL
THICKNESS 5.0MM MAX



| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|

MATERIALS LIST

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in metric(mm).
2) Tolerances are as follows:
1 PL DEC ±0.30
2 PL DEC ±0.15
3 PL DEC ±0.08
Fractions ±1/64
Angles ±1°
3) Note reference = X

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | JUN | APR-26-2023 |
| CHECKED: | JOE | APR-28-2023 |
| ENGINEER: | | |
| APPROVAL: | TOMMY | MAY-02-2023 |
| CUSTOMER: | | |

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44724 Morley Drive
Clinton Township, MI 48036

EcoMate Aquarius,RECEPTACLE, JAM NUT,
xx POSITION, MALE,SHELL SIZE 14

| SIZE | TYPE | DWG NO: | REVISION |
|---|---|---|---|
| B | C- | FLS714xxxP03 | A3 |

SCALE: NONE SHEET 1 OF 4

TITLE: EcoMate Aquarius,RECEPTACLE, JAM NUT, xx POSITION, MALE,SHELL SIZE 14
DWG NO: FLS714xxxP03
REV: A3
SH: 1
OF: 1

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | -- | FIRST RELEASED | NOV-23-2021 | BLINK | TOMMY |
| A2 | -- | ADD IP68 | APR-26-2023 | JUN | TOMMY |
| A3 | -- | UPDATED SUITABLE CONTACT NOTE | MAY-16-2023 | RO | RO |

ORDERING INFORMATION：

FLS712xxxP03

PROTECTION KEY:(SEE TABLE 1)：
- N KEY(STANADRD VERSION)
- W KEY
- X KEY
- Y KEY
- Z KEY

STANDS FOR INSERT ARRANGEMENT：
- 2 - 4(2+2) CORES.
- 3 - 3 CORES.
- 4 - 4 CORES.
- 7 - 7 CORES.
- 8 - 8 CORES.
- 12 - 12 CORES.
- 19 - 19 CORES.

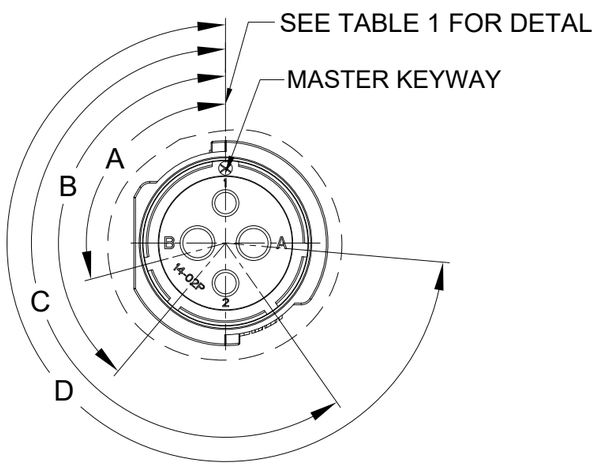



TABLE 1:

| KEY POS | A | B | C | D |
|---|---|---|---|---|
| N | 105° | 140° | 215° | 265° |
| W | 60° | 140° | 215° | 265° |
| X | 105° | 160° | 215° | 265° |
| Y | 105° | 140° | 225° | 265° |
| Z | 105° | 140° | 215° | 295° |

| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|

MATERIALS LIST

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1 PL DEC ±0.30 | Fractions ±1/64
2 PL DEC ±0.15 | Angles ±1°
3 PL DEC ±0.08
3) Note reference = X

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | JUN | APR-26-2023 |
| CHECKED: | JOE | APR-28-2023 |
| ENGINEER: | | |
| APPROVAL: | TOMMY | MAY-02-2023 |
| CUSTOMER: | | |

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EcoMate Aquarius,RECEPTACLE, JAM NUT,
xx POSITION, MALE,SHELL SIZE 14

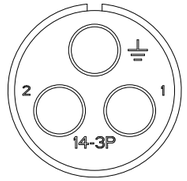
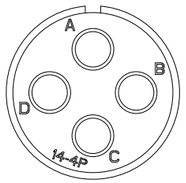
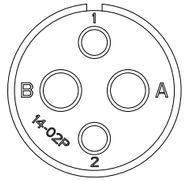
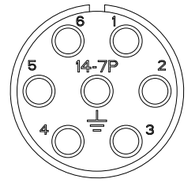
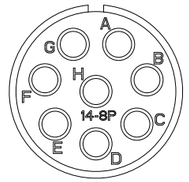
| SIZE | TYPE | DWG NO: | REVISION |
|---|---|---|---|
| B | C- | FLS714xxxP03 | A3 |

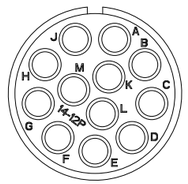
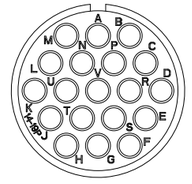
SCALE: NONE SHEET 2 OF 4

TITLE: EcoMate Aquarius,RECEPTACLE, JAM NUT, xx POSITION, MALE SHELL SIZE 14
DWG NO: FLS714xxxP03
REV: A2
SH: 1
OF: 1

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | -- | FIRST RELEASED | NOV-23-2021 | BLINK | TOMMY |
| A2 | -- | ADD IP68 | APR-26-2023 | JUN | TOMMY |
| A3 | -- | UPDATED SUITABLE CONTACT NOTE | MAY-16-2023 | RO | RO |

TABLE 2:

| PART NUMBER | FLS714x3P03 | FLS714x4P03 | FLS714x2P03 | FLS714x7P03 | FLS714x8P03 |
|---|---|---|---|---|---|
| MALE INSERT ARRANGEMENT FRONT VIEW |  |  |  |  |  |
| SUITABLE CONTACTS | 3 x Size 8 (3.6mm²) | 4 x Size 12 (2.5mm²) | 2 x Size 16 (1.5mm²)<br>2 x Size 12 (2.5mm²) | 7 x Size 16 (1.5mm²) | 8 x Size 16 (1.5mm²) |
| RATED CURRENT | 45A | 25A-MACHINED CONT.<br>23A-STAMPED CONT. | (2.5mm) 25A-MACHINED CONT.<br>(2.5mm) 23A-STAMPED CONT.<br>(16#)13A | 13A | 13A |
| RATED VOLTAGE | 600V AC/DC | 500V AC/DC | 500V AC/DC | 500V AC/DC | 500V AC/DC |
| DIELECTRIC WITHSTANDING VOLTAGE | 2200V AC | 2000V AC | 2000V AC | 2000V AC | 2000V AC |

| PART NUMBER | FLS714x12P03 | FLS714x19P03 |
|---|---|---|
| MALE INSERT ARRANGEMENT FRONT VIEW |  |  |
| SUITABLE CONTACTS | 12 x Size 16 | 19 x Size 20 |
| RATED CURRENT | 13A | 7.5A-MACHINED CONT.<br>5A-STAMPED CONT. |
| RATED VOLTAGE | 500V AC/DC | 250V AC/DC |
| DIELECTRIC WITHSTANDING VOLTAGE | 2000V AC | 1500V AC |

| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|

MATERIALS LIST

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2 PL DEC ±0.15 | Angles ±1°
3 PL DEC ±0.08
3) Note reference = X

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | JUN | APR-26-2023 |
| CHECKED: | JOE | APR-28-2023 |
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EcoMate Aquarius,RECEPTACLE, JAM NUT,
xx POSITION, MALE,SHELL SIZE 14

| SIZE | TYPE | DWG NO: | REVISION |
|---|---|---|---|
| B | C- | FLS714xxxP03 | A3 |

SCALE: NONE SHEET 3 OF 4

TITLE: EcoMate Aquarius,RECEPTACLE, JAM NUT, xx POSITION, MALE,SHELL SIZE 14
DWG NO: FLS714xxxP03
REV: A3
SH: 1
OF: 1

# **ecomate® RM/RSSM/Aquarius™** - Contact Size 3.6mm Options (1403 Insert Arrangement)

| Machined, Crimp Contacts | | | | | |
|---|---|---|---|---|---|
| Part Number | | Contact Size (AWG) | Wire Range (mm²) | For Use w End Cap | Plating |
| Male | Female | | | | |
| MP10A23T-10 | MS10A23T-10 | 8AWG | 10.0 mm² | No | Tin |
| MP10A23S-10 | MS10A23S-10 | 8AWG | 10.0 mm² | No | Silver |
| MP10A23F-10 | MS10A23F-10 | 8AWG | 10.0 mm² | No | Gold Flash |
| MP10A23G5-10 | MS10A23G5-10 | 8AWG | 10.0 mm² | No | Gold 5µ" |
| MP10A23G10-10 | MS10A23G10-10 | 8AWG | 10.0 mm² | No | Gold 10µ" |
| MP10A23G15-10 | MS10A23G15-10 | 8AWG | 10.0 mm² | No | Gold 15µ" |
| MP10A23G30-10 | MS10A23G30-10 | 8AWG | 10.0 mm² | No | Gold 30µ" |
| MP10A23S-63 | MS10A23S-63 | 12-10AWG | 4.0 - 6.0 mm² | No | Silver |
| MP10A23F-63 | MS10A23F-63 | 12-10AWG | 4.0 - 6.0 mm² | No | Gold Flash |
| MP10A23TL | MS10A23T | 12-10AWG | 3.0 - 6.0 mm² | Yes | Tin |
| MP10A23SL | MS10A23S | 12-10AWG | 3.0 - 6.0 mm² | Yes | Silver |
| MP10A23FL | MS10A23F | 12-10AWG | 3.0 - 6.0 mm² | Yes | Gold Flash |
| MP10A23G5L | MS10A23G5 | 12-10AWG | 3.0 - 6.0 mm² | Yes | Gold 5µ" |
| MP10A23G10L | MS10A23G10 | 12-10AWG | 3.0 - 6.0 mm² | Yes | Gold 10µ" |
| MP10A23G15L | MS10A23G15 | 12-10AWG | 3.0 - 6.0 mm² | Yes | Gold 15µ" |
| MP10A23G30L | MS10A23G30 | 12-10AWG | 3.0 - 6.0 mm² | Yes | Gold 30µ" |
| MP10A23S-25 | MS10A23S-25 | 16-14AWG | 1.5 - 2.5 mm² | No | Silver |
| MP10A23F-25 | MS10A23F-25 | 16-14AWG | 1.5 - 2.5 mm² | No | Gold Flash |

| Machined, Tooling | |
|---|---|
| Part Number | Description |
| QXRT08 | Contact Extraction Tool, # 8 (Ø 3.6mm) Contact |
| M300BT | Hand Crimper |
| WA27-300BT-EP | Pneumatic Crimper |
| TP968 | Locator M3200BT and WA27-300BT-EP |

| Plating Options | |
|---|---|
| Symbol | Plating |
| T | Tin Plated (for Stamped & Formed Contacts) |
| S | Silver Plated 5Um (for Machined Contacts) |
| F | Gold Plated |
| G5 | Gold Plated (Thickness 5µ") |
| G10 | Gold Plated (Thickness 10µ") |
| G15 | Gold Plated (Thickness 15µ") |
| G30 | Gold Plated (Thickness 30µ") |