

- 1) LATCHING PLANE OF THE CONTACT (PRIMARY LOCK AND SECONDARY LOCK).
- 2) ENGAGEMENT OF PRIMARY LOCK AND SECONDARY LOCK POSSIBLE IN THE MARKED AREA.
- THE MANUFACTURER OF THE HOUSING IS RESPONSIBLE FOR THE EXPLICIT GEOMETRY OF THE LOCKING FEATURE.
- 3) MINIMUM REQUIRED GUIDE LENGTH IN THE CAVITY:

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- a) BEGINNING OF THE GUIDE LENGTH
- b) ENDING OF THE GUIDE LENGTH
- **RECOMMENDED MATERIAL PROPERTIES:**
- E-MODULUS > 6500 MPa, ELONGATION BREAK > 2% AND TENSILE STRESS BREAK > 100 MPa
- VALID MATING INTERFACE DRAWING MUST BE RESPECTED.
- CLEARANCE BETWEEN TERMINAL AND LOCKING MUST ALLOW FULL ASSEMBLY.
- POSITIONAL TOLERANCE TO FEMALE CONTACT CAVITY IN ASSEMBLED STATE.
- 8) DIMENSIONS IS FOR CIRCULARITY AND RECTANGLE SHAPES PERMITTED. 9) ALTERNATIVELY THE GEOMETRY CAN BE DESIGNED AS FOLLOWS:
- 10) RECOMMENDED DIMENSION AND GEOMETRY. DEVIATIONS ALLOWED.
- 11) POSITION OF WIRE SEAL
- 12) SEALING AREA OF WIRE SEAL

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|   |  | Α   | INITIAL RELEASE        | 11/07/24 |     |     |  |  |  |  |  |
|   | CHANGE<br>SERIAL<br>NUMBER   | LET | REVISION RECORD        | DATE     | DWN | CHK |  |  |  |  |  |
|   | TOLERA   |     | THIRD ANGLE PROJECTION |          |     |     |  |  |  |  |  |
|   | DIMENSIONS ARE IN MILLIMETERS  SIZE ISO 14405 / TOLERANCING ISO 8015 |     |                        |          |     |     |  |  |  |  |  |
|   | DIMENSIONING AND TOLERANCE FOR PLASTIC PARTS: DIN 20457 - TG4        |     |                        |          |     |     |  |  |  |  |  |
|   | USCAR-EWCAP  |     |                        |          |     |     |  |  |  |  |  |

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SHEET DRAWING NUMBER EWCAP-CAV-S-STP-F-002 A2 COMPUTER ALDED DRAWING 1 of 3

TITLE

DRAWN BY

S. STROM

H-MTD CONTACT CAVITY FEMALE WATERPROOF

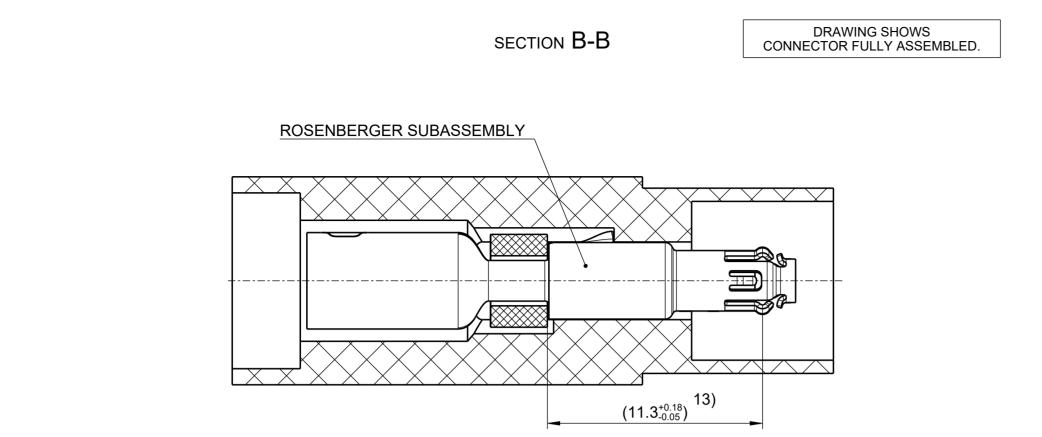
SIZE DO NOT SCALE DRAWING

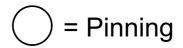
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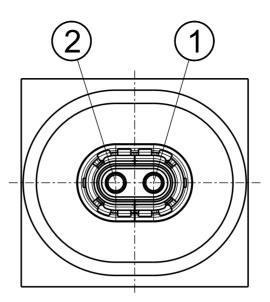
M. OETTL

REVISION LEVEL

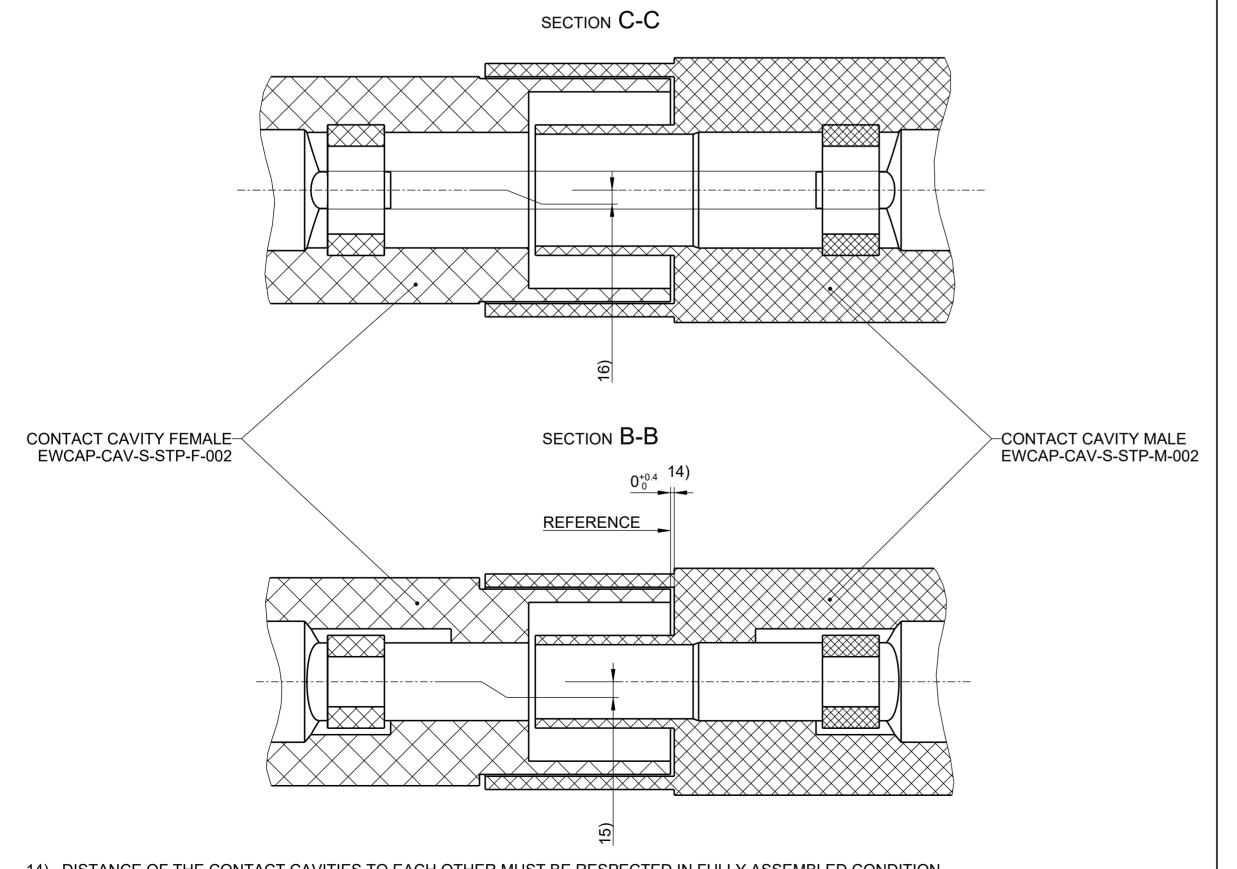
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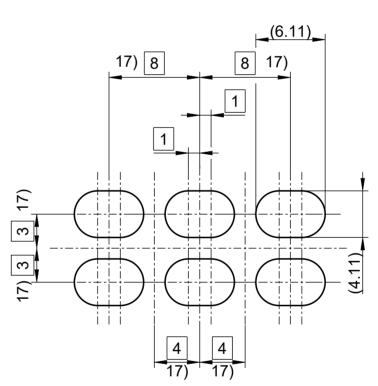




13) POSITION OF THE SHIELD CONTACT.



SCALE 3:1



17) CAVITY OVERLAPPING IS POSSIBLE FOR MULTIPORTCONNECTORS.

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| TOLERANCES (UNLESS OTHERWISE SPECIFIED)  THIRD ANGLE PROJE    |        |                   |        |                          |          |                   |   |  |  |  |  |  |  |
|---|--------|-------------------|--------|--------------------------|----------|-------------------|---|--|--|--|--|--|--|
| DIMENSIONS ARE IN MILLIMETERS                                 |        |                   |        |                          |          |                   |   |  |  |  |  |  |  |
| SIZE ISO 14405 / TOLERANCING ISO 8015                         |        |                   |        |                          |          |                   |   |  |  |  |  |  |  |
| DIMENSIONING AND TOLERANCE FOR PLASTIC PARTS: DIN 20457 - TG4 |        |                   |        |                          |          |                   |   |  |  |  |  |  |  |
| USCAR-EWCAP   |        |                   |        |                          |          |                   |   |  |  |  |  |  |  |
| SCALE 5:1   |        | DRAWN BY S. STROM |        | ECKED BY M. OETTL        |          | DATE 11/07/24     |   |  |  |  |  |  |  |
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| TITLE   |        |                   |        |                          |          |                   |   |  |  |  |  |  |  |
| H-MTD CONTACT CAVITY FEMALE WATERPROOF                        |        |                   |        |                          |          |                   |   |  |  |  |  |  |  |
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| SHEET   |        |                   | SIZE   | IND WOLL SCALE DRAWING 1 |          | REVISION<br>LEVEL |   |  |  |  |  |  |  |
| 2 of 3  | EWCAP- | -CAV-S-STP-F-002  | A2     | COMPUTER AIDED           | DRAW     | ING               | Α |  |  |  |  |  |  |

- DISTANCE OF THE CONTACT CAVITIES TO EACH OTHER MUST BE RESPECTED IN FULLY ASSEMBLED CONDITION.
   ANGULAR MISALIGNMENT max. ±2.3°AND OFFSET max. ±0.28mm TO MALE CONTACT CAVITY IN FULLY ASSEMBLED CONDITION.
   ANGULAR MISALIGNMENT max. ±2.1°AND OFFSET max. ±0.26mm TO MALE CONTACT CAVITY IN FULLY ASSEMBLED CONDITION.

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SIGNED M. ZEBHAUSER FOR ROSENBERGER. DATE: 11/07/24 NAME AND TITLE OF SIGNER: M. ZEBHAUSER

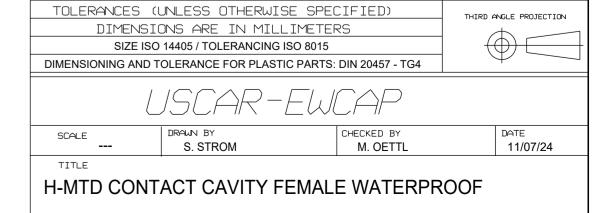
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SHEET DRAWING NUMBER 3 of 3 EWCAP-CAV-S-STP-F-002 A2 COMPUTER ALDED DRAWING

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