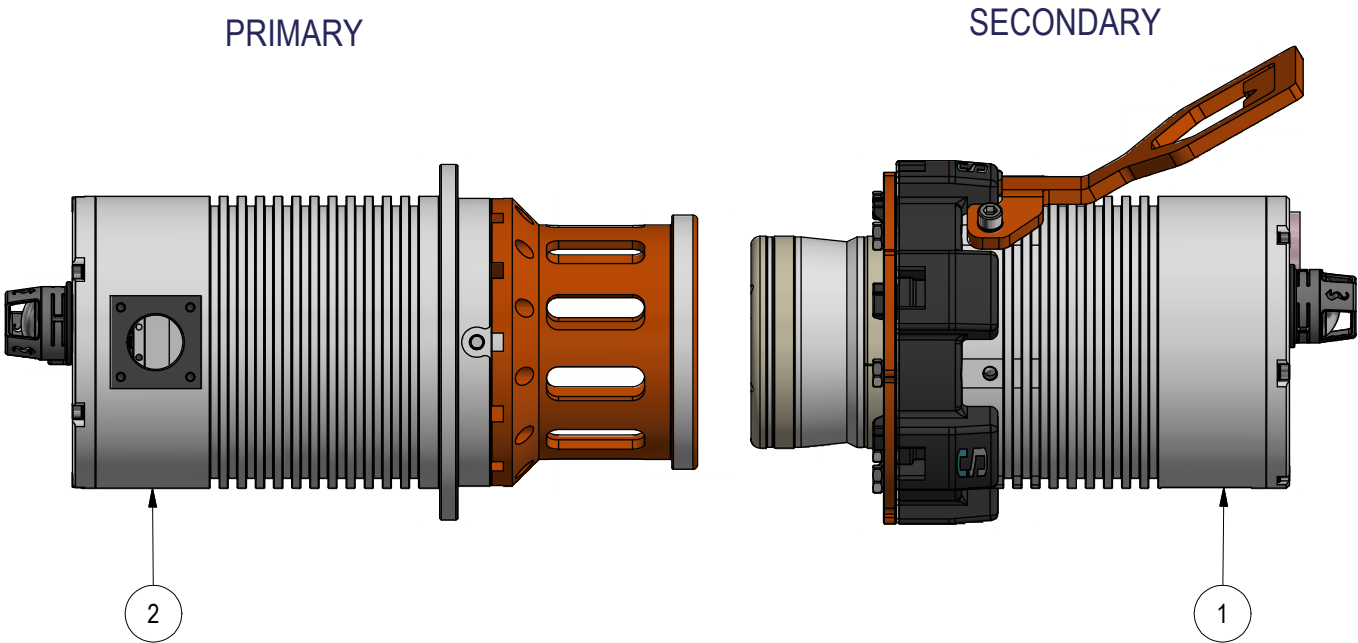


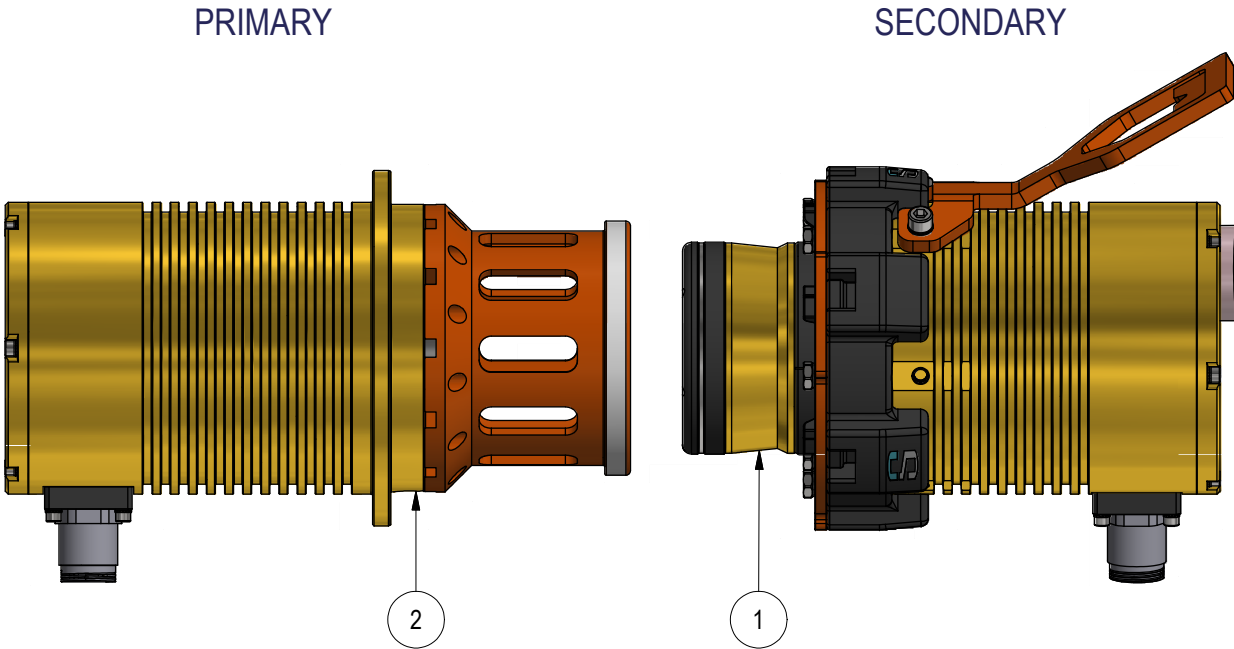
| Parts List | | | |
|------------|----------|---|---|
| ITEM | PART No. | TITLE | e-Sea WebLink |
| 1 | BB9380 | F30-80 Sec-Nose Perm 250W 400VDC Ethernet | https://e-sea.bluelogic.no/main.aspx?page=article&artno=BB9380 |
| 2 | BB7589 | F30-80 Pri-Cage Perm 250W 400VDC Ethernet | https://e-sea.bluelogic.no/main.aspx?page=article&artno=BB7589 |

LONG-TERM PROGRAM



| Parts List | | | |
|------------|----------|--|---|
| ITEM | PART No. | TITLE | e-Sea WebLink |
| 1 | BB9066 | F30-80 Sec-Nose 250W 400VDC Ethernet Golden Unit | https://e-sea.bluelogic.no/main.aspx?page=article&artno=BB9066 |
| 2 | BB9065 | F30-80 Pri-Cage 250W 400VDC Ethernet Golden Unit | https://e-sea.bluelogic.no/main.aspx?page=article&artno=BB9065 |

INTERVENTION PROGRAM



NOTE: 1
ADDITIONAL INFORMATION:
The Subsea USB F30-80 system is based on the Unplugged inductive technology for transfer of electrical power and communication subsea. The F30-80 connector system is part of the complete "Subsea-USB" system covering power range from 50W to 3000W with communication speeds up to 1 Gbit/s.

In general, each Inductive system consists of a Primary (TX) and a Secondary (RX) side installed in a ROV friendly housing. The power is transferred from the Primary side to the Secondary side whilst communication is operated in full duplex.

- The F30-80 Connectors can be configured:
1. Manually operated by hand
 2. ROV/UID/AUV operated.
 3. Tether connection
 4. Bulkhead piggy backed on other equipment.

400VDC +/- 10% (DC-FO) voltage input and 325VD +/- 5%. output at the secondary side. A telemetry/diagnostic interface is available on the ethernet interface. Approx. efficiency of the inductive connectors, end to end is >85%. The inductive coils are galvanically isolated from each other and can be regarded as a 1 to 1 transformer. The F30-80 system Secondary side can be configured with RS232 or RS485 (230kbps) and with Ethernet (80Mbps). The Primary side has 2 ethernet channels; one for transparent ethernet and one as a configuration channel. The system has IoT functionality and can operate as a Controllable power supply and thus be configured as a battery charger with CC/CV charge algorithm. The system can control voltage and current using the internal regulation Firmware. This will require special software for both primary and secondary connector. I.e. by use of SW we can control Voltage +/- 20%. Most systems rated to 3000m water depth.

The system can be delivered in the following material types: Aluminium or Super duplex. It is recommended to always include the connector in the CP protection system on the aluminium connector and make sure it is in galvanic contact. Aluminium is designed for short-term (intervention) use.

The super duplex version has been fully qualified according to API17F and API 17H with a design life of 15years+. It has a MK3 PBOF Hose Flange interface enabling permanent installation with Electrical Flying Leads. A dedicated API for Cloud control is also available with condition data delivered to a default cloud connection.

| | | | | | | | | | | | |
|----------------------|-----------|--------------------------------|-----------------|------|-------|-------|---|---|--|---|--|
| FOR INFORMATION ONLY | | | | | | |  | Dwg Scale: NTS Dwg Proj:  | | Drawing title: F30-80 350W Program Gen2 | |
| 01 | 29.2.2024 | 3-IFI (Issued for Information) | | WTJ | HSE | WTJ | | Dwg Format: A3 | | Drawing number: BB9476 | |
| Rev. | Date | Reason for issue | Revision change | Made | Chk'd | Appr. | This Drawing is the Property of Subsea USB AS © and must Not be Loaned, Reproduced or Transferred to others without written Permission of an Authorized Representative of Subsea USB AS | | | | |