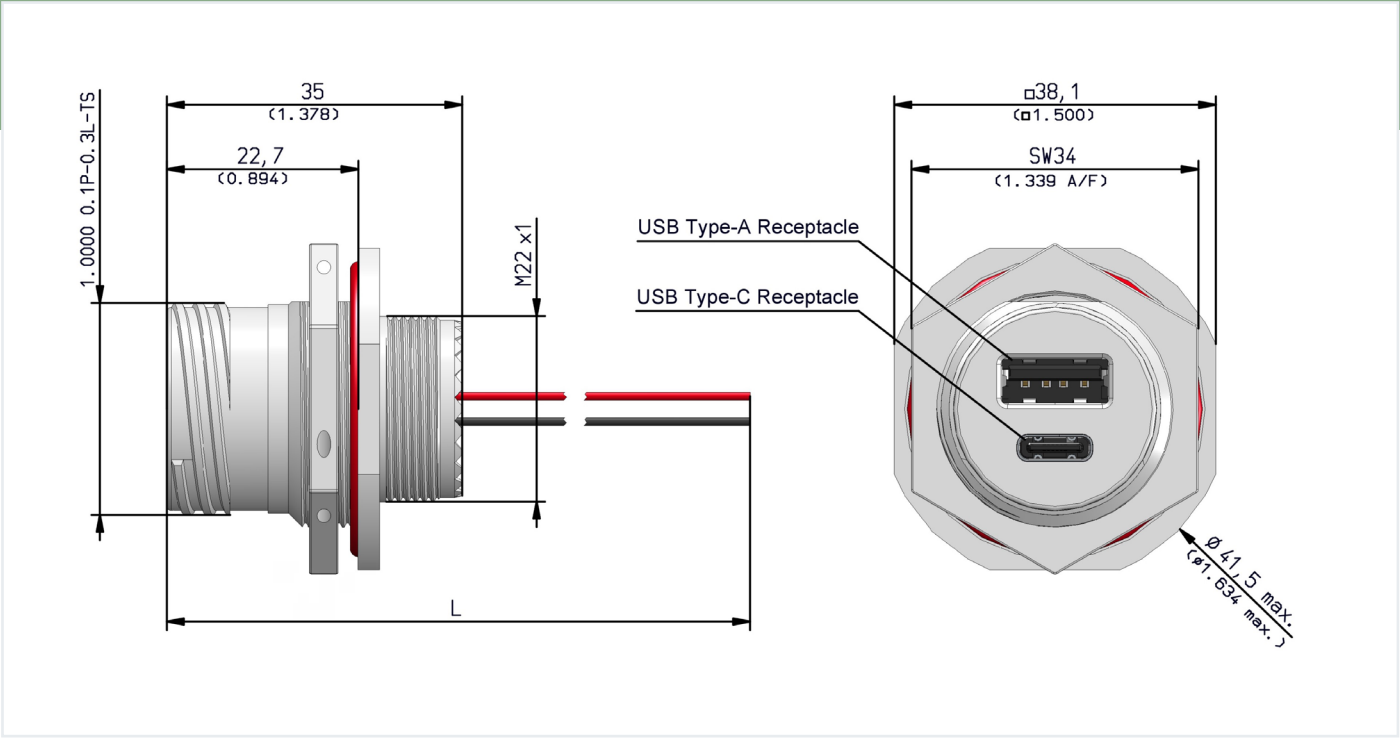


# X2-SERIES – RUGGED USB CONNECTIONS

## USB A/C – JAM NUT RECEPTACLE FOR POWER SUPPLY X2-9859



### INFORMATION

All dimensions in  
mm (inch) unless  
otherwise specified.

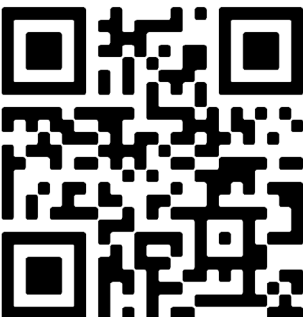
Shell derived from D38999

PN: X2-9859

Datasheet Version: 1.0

#### CATALOG:

Harsh Environment  
Data Connectivity Solutions



### Table A: Material & Plating

| Material & Plating Code | Technical Design                                                                                                                               | ROHS-/REACH Compliant | Electrically Conductive | Salt Spray Resistance according to MIL spec. | Salt Spray Resistance according to VG spec. |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|----------------------------------------------|---------------------------------------------|
| V                       | <b>Tin-Zinc grey</b><br>Base material: Al-alloy<br>Tin-Zinc over electroless Nickel                                                            | Yes                   | Yes                     | 500 hrs                                      | 5 day cyclic                                |
| 5                       | <b>Electroless Nickel</b><br>Base material: Al-alloy                                                                                           | Yes                   | Yes                     | 48 hrs                                       | n.a.                                        |
| 2                       | <b>Zinc-Nickel black</b><br>Coupling ring: Al-alloy, black anodized<br>Shell: Zinc-Nickel black chromate over electroless Nickel               | Yes                   | Yes                     | 500 hrs                                      | n.a.                                        |
| 6                       | <b>Cadmium olive drab</b><br>Coupling ring: Al-alloy, olive drab anodized<br>Shell: Al-alloy Cadmium plated olive drab over electroless Nickel | No                    | Yes                     | 500 hrs                                      | 5 day cyclic                                |
| 9                       | <b>Marine Bronze</b><br>Base material: Marine Bronze<br>CuAl10Ni5Fe4 (CW307G)<br>Shotblast, nonreflective                                      | Yes                   | Yes                     | n.a.                                         | n.a.                                        |
| 1                       | <b>Stainless Steel</b> / passivated                                                                                                            | Yes                   | Yes                     | n.a.                                         | n.a.                                        |

## Performance

|                   |                                           |
|-------------------|-------------------------------------------|
| Voltage Rating    | 30 V / 20 V (USB A/C)                     |
| Current Rating    | 1,8 A / 5 A(USB A/C)                      |
| Temperature       | -40 °C to +85 °C                          |
| Mating cycles     | >5.000 / >10.000 (USB A/C)                |
| Type-A Receptacle | Pin 2 (D-) and Pin 3 (D+) short-circuited |
| Type-C Receptacle | Pins A7&B7 and A6&B6 connected            |

## Materials

|               |                        |
|---------------|------------------------|
| USB A/C shell | Nickel plated          |
| Housing       | See option material    |
| Wire type     | FLRY: 1mm <sup>2</sup> |

For charging applications, the achieved performance depends on the devices used.  
For details about panel cut out see page 73 in the full „Harsh Environment Data Connectivity Solutions“ catalog.

## Table B: Wire length

| Length Code | Length L in mm | Tolerance in mm |
|-------------|----------------|-----------------|
| 0500        | 500 (19.685)   | + 30 (1.181)    |
| 1000        | 1000 (39,370)  | + 40 (1.575)    |

## How to order

|                         | Table | X2-9859 | 15 | 5 | 0500 |
|-------------------------|-------|---------|----|---|------|
| Basic part number       |       |         |    |   |      |
| Shell size              |       |         |    |   |      |
| Material & plating code | A     |         |    |   |      |
| Wire length             | B     |         |    |   |      |

### ORDER EXAMPLE

**X2-9859-15-5-0500**

USB A/C – JAM NUT FOR POWER SUPPLY

SIZE 15

ELECTROLESS NICKEL

WIRE LENGTH 500 MM

### EMCA CONNECTOR SOLUTIONS GMBH

X2-9859 | Datasheet Version 1.0

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