

# Double USB Receptacle



The double USB receptacle uses the mechanical interface and panel cut out of a MIL-DTL-38999 Series III circular connector with size 15 jam nut shell, complete with a protection cap and lanyard.

Various configurations are available, with or without flying leads for USB 3.0 or USB 2.0 and cable lengths up to 4 meters.

The connector is suitable for power or signal transmission dependent on the USB standard used. The aluminium alloy shell is available in 3 plating finishes Black Zinc Nickel, Electroless Nickel and Hard Anodized Black.

There are many possible applications for this innovative product providing environmental protection to an otherwise vulnerable interface. Applications are likely to be in Military, Security, Broadcast and Avionics.

The Universal Serial Bus is an industry standard enabling interconnection of a huge range of devices for both low power (5V) and high-speed data transfer (up to 5Gbit/s). The flexibility and broad adoption of the USB 2.0 and 3.0 standards makes the interface attractive for a wide range of applications and this connector facilitates its use even in environments where an unprotected standard receptacle would not survive.

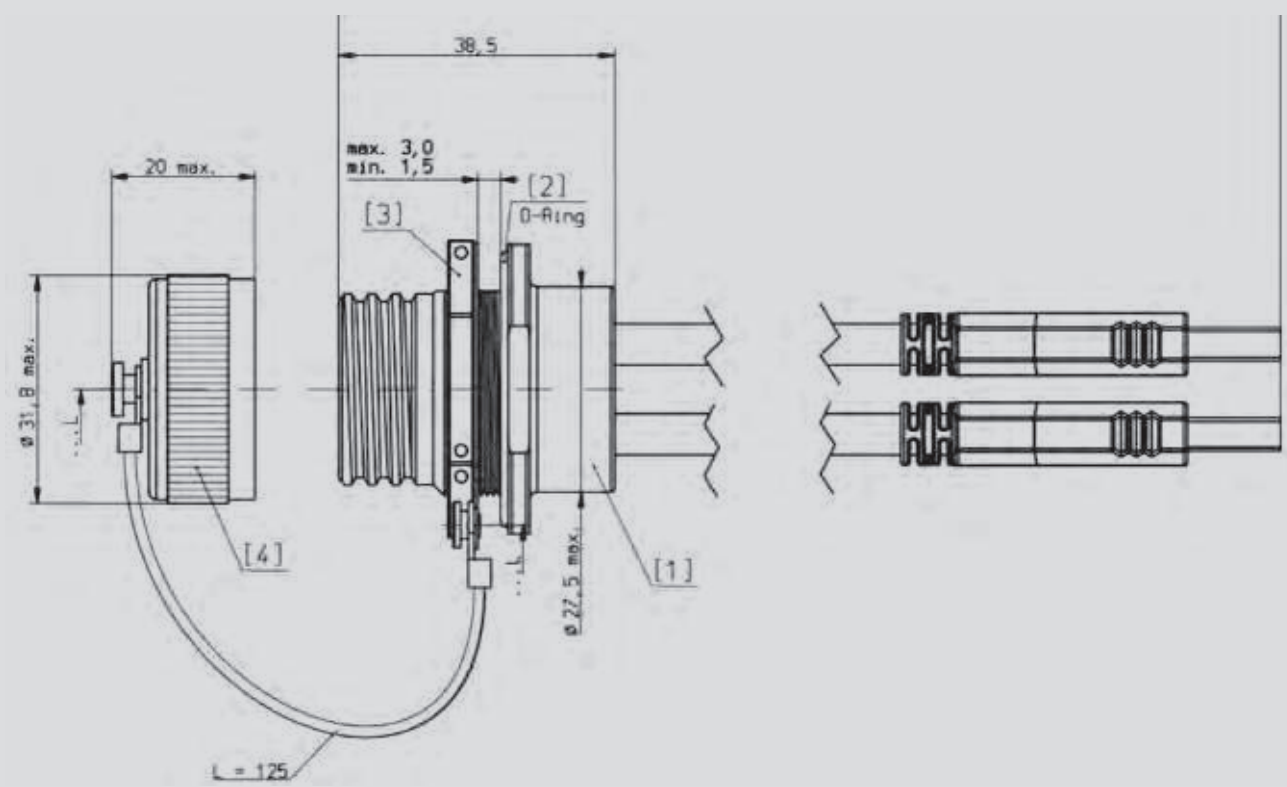


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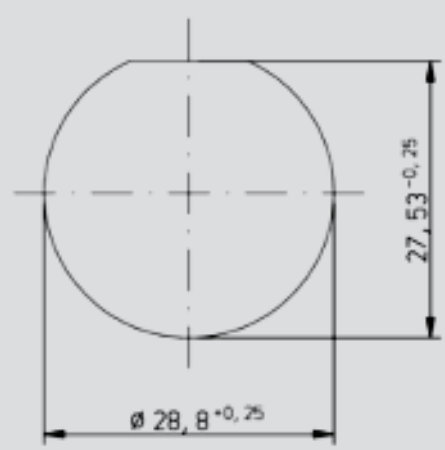
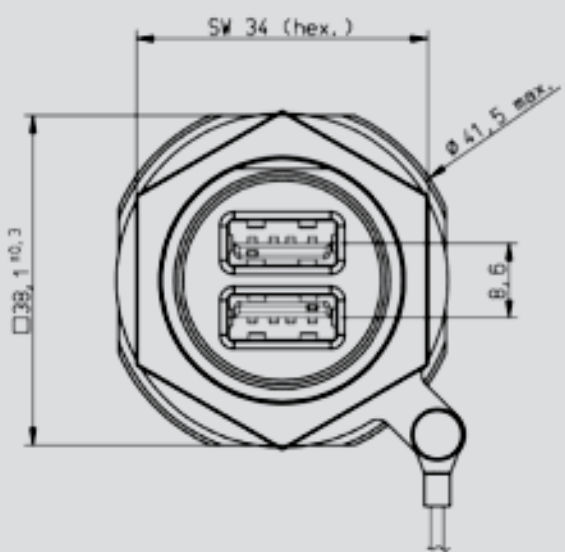
# 1 OPTION 1: WITH USB CABLE



FRONT VIEW

PROTECTIVE CAP NOT SHOWN

PANEL CUT OUT



# 1 OPTION 1: WITH USB CABLE

## 1.1 Scope of supply

- [1] Double USB receptacle Type A with USB cable connection and plug Type A on each (options see 1.2)
- [2] O-Ring
- [3] Hex nut
- [4] Protective cap (with wire rope and ring)

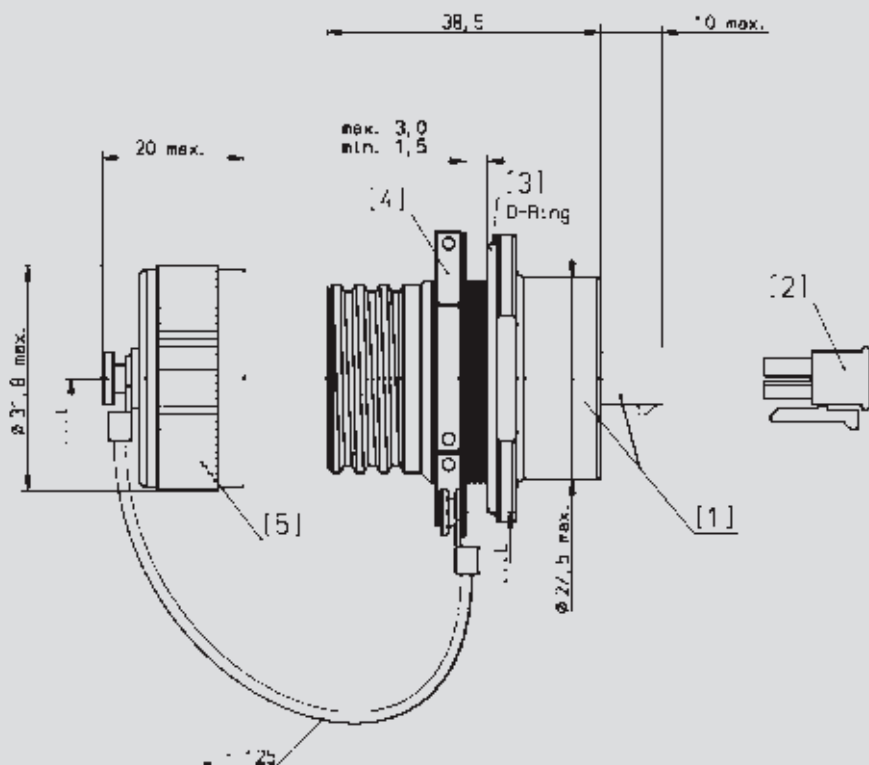
## 1.2 Part number

### **How to order**

- Basic part number
- Technical design
- Material & Plating option
- Cable length L1

	S37-291	-	3	H	01
<b>Table</b>					
-					
1					
2					
3					

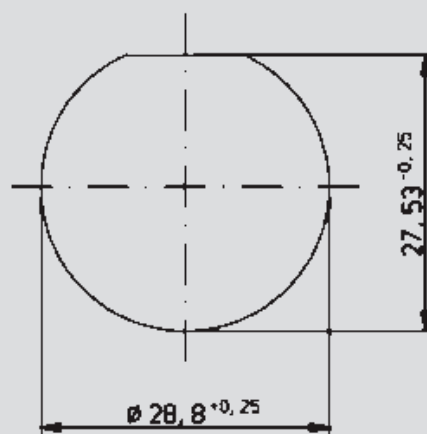
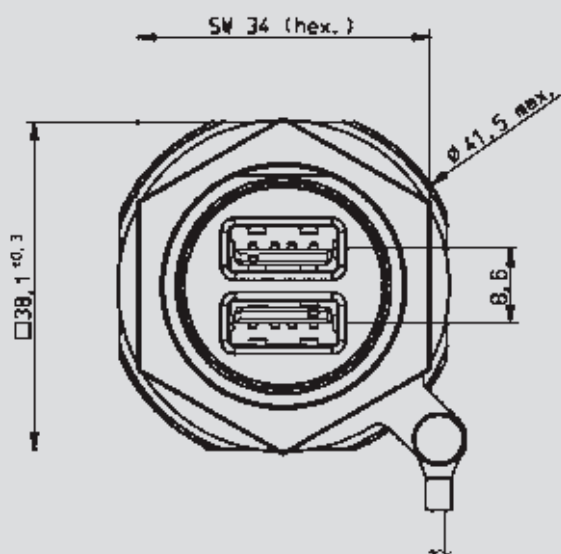
## 2 OPTION 2: WITHOUT CABLE



FRONT VIEW

CAP NOT SHOWN

PANEL CUT OUT



## 2 OPTION 2: WITHOUT USB CABLE

### 2.1 Scope of supply

- [1] Double USB receptacle with 8Pin receptacle (options see 2.2)
- [2] 8Pin plug including 10x crimp contacts
- [3] O-Ring
- [4] Hex nut
- [5] Protective cap (with wire rope and ring)

### 2.2 Part number

#### **How to order**

Basic part number

Technical design

Material & Plating option

#### **Table**

	S37-290 - 2* H
-	
1	
2	

\* S37-290 only available as USB 2.0

# 3 CABLE LENGTH

Only for option 1 (S37-291)

Table 3 Cable length L1

Length code	Cable length L1 in m	USB 3.0	USB 2.0
01	0,5	•	•
02	1,0	•	•
03	1,5	•	•
04	2,0	•	•
05	2,5		•
06	3,0		•
07	3,5		•
08	4,0		•



# 4 TECHNICAL DESIGN

Table 1: Technical design

Basic part number	USB	Data transfer	Power transmission			Operating Range	
			Voltage	max. amperage	max. power	Temperature	Humidity
S37-291-3xxx	3.0	5 Gbit/s	5V	0,9 A	4,5 W	-45°C to +85°C	IP10 operating mode, IP67 with protective cap
S37-291-2xxx	2.0	480 Mbit/s		0,5 A	2,5 W		
S37-290-2xx							

Above stated transmission values will be achieved in compliance with USB standards

## 4 Material & Plating option

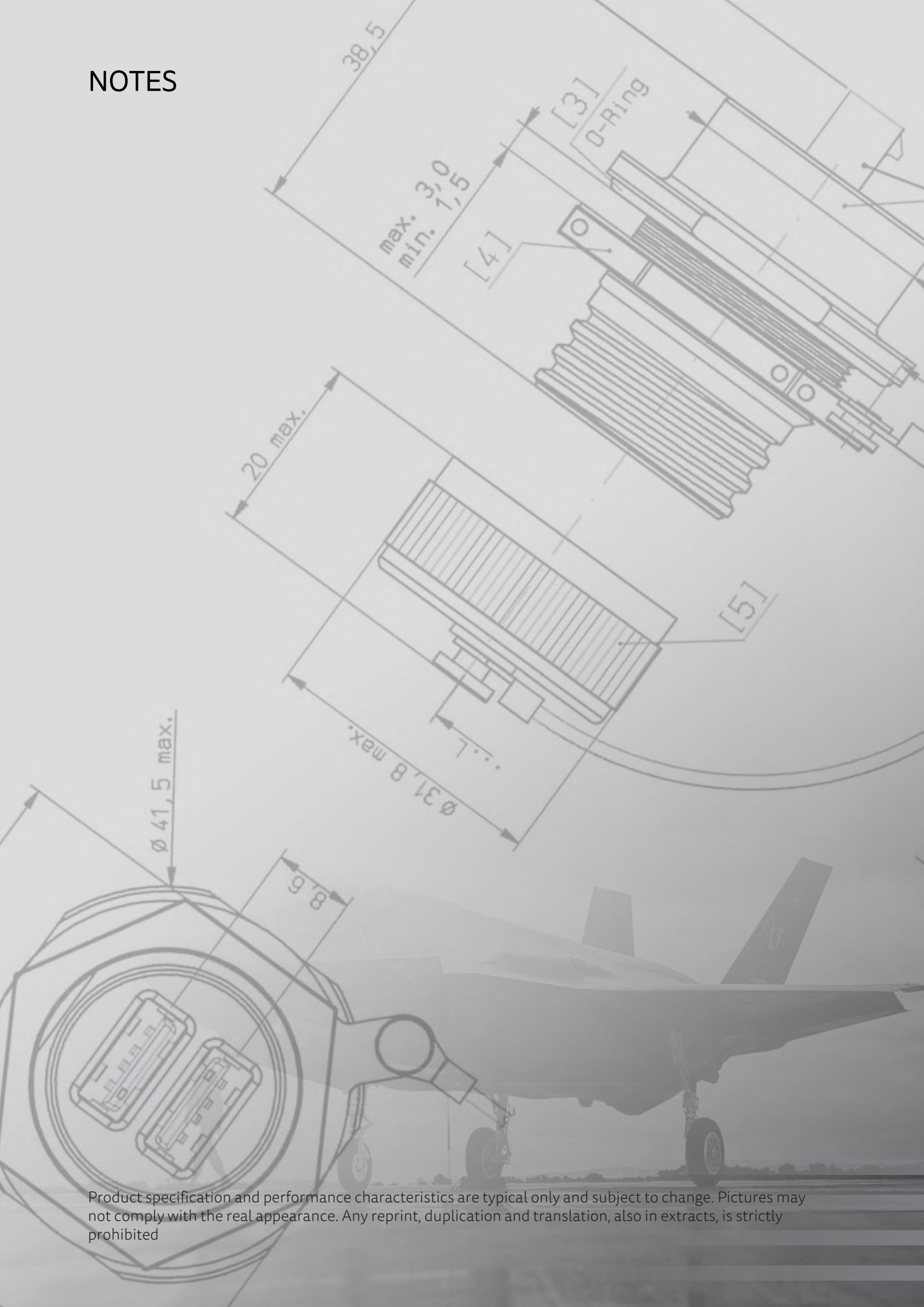
Table 2: Material and Plating option

Material & Plating code	Base Material	Plating Finish	Salt Spray Resistance	RoHS-/REACH Compatible	Electrically conductive
5	Aluminium alloy	Electroless nickel	48 h	YES	YES
2	Aluminium alloy	Zinc Nickel, black	500 h	YES	YES
H	Aluminium alloy	Hard anodized, black	500+ h	YES	NO

# NOTES



# NOTES



Product specification and performance characteristics are typical only and subject to change. Pictures may not comply with the real appearance. Any reprint, duplication and translation, also in extracts, is strictly prohibited

# SERVICES

Apollo Aerospace Components offers the answer for clients seeking fast turnaround and non-biased product selection.

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Product design

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