

USBF SC

Quick release series



This product offers a new coupling solution, particularly for applications requiring quick disconnect. The system consists of a circular spring within in the receptacle keeping the plug mated, and creating an internal coupling mechanism.

- Applications**
- Embedded computers
 - Data acquisition and transmission in harsh environment
 - Railways
 - Battelfield communication systems
 - Navy systems

Data transmission
 USB specification 2.0
 Data rate: up to 480 Mb/s for high speed USB

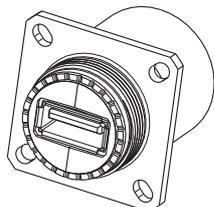
- Main characteristics**
- Sealed against fluids and dusts (IP67)
 - Shock, vibration and traction resistant
 - No cabling operation in field and no tools required
 - Improved EMI protection
 - Mating cycles: 500
 - Mating force after 500 cycles: 40 N
 - Unmating force after 500 cycles: 55 N
- Environmental protection**
- Sealing (when mated): IP67 (temporary immersion)
 - Salt spray: 48 h with nickel plating
 > 500 h with olive drab cadmium
 - Fire retardant / Low smoke: UL94 V0 and NF F 16 101 & 16 102
 - Vibrations: 10 – 500 Hz, 10 g, 3 axes: no discontinuity > 1 micro s
 - Shocks: IK06 ▶ weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)
 - Humidity: 21 days, 43°C, 98% humidity
 - Temperature range: - 40°C / +85°C

Part number code

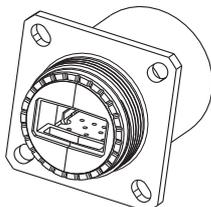
Series	USBF SC	2	1	G
USBF spring loaded				
Shell Type				
6: plug				
1: inline receptacle				
2: square flange receptacle				
7: jam nut receptacle				
Back terminations (receptacles only)				
1: female USB-A				
2: solder (4 tinned holes) - Not available for shell type "1" (inline receptacle)				
Shells material & finish				
N: aluminium shell - nickel plating - ROHS compliant				
G: aluminium shell - olive drab cadmium plating				
BZ: marine bronze shell - ROHS compliant				

Back terminations

USBFSC Back terminations receptacles



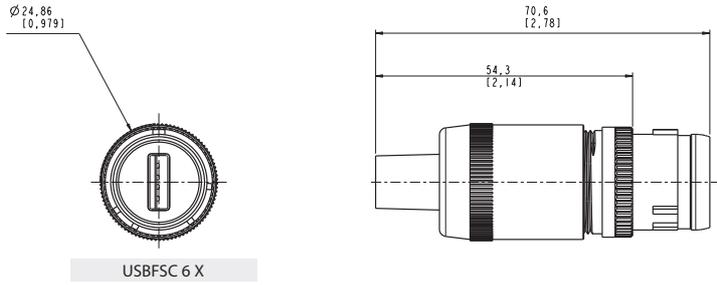
Type 1: female USB-A



Type 2: solder (4 tinned holes)

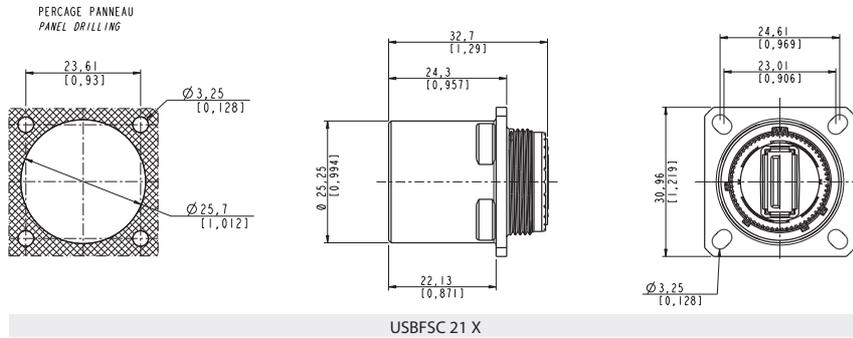
Plug

■ Shell type 6

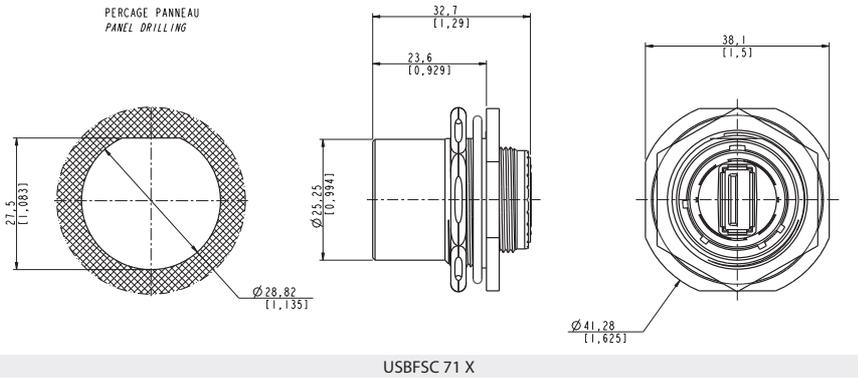


Receptacles

■ Square flange receptacle 4 mounting holes: shell type 2



■ Jam nut receptacle hexagonal nut mounting: shell type 7



■ Inline receptacle: shell type 1

