

## Q-XCO – quick-lock ruggedized SFP connector

### Features

- Quick-lock mating connector for remote radio head, point-to-point link and industrial applications
- Ruggedized outdoor design with 2 x LC interface
- Plugs directly into SFP module, compatible with all standard SFP modules
- Full compensation of positioning tolerances and SFP module tolerances
- Bayonet, blind-mating mechanism and highest installation safety
- Full protection of optical interface during installation
- Access and exchange of SFP module possible



### Mating mechanism

Mating	1-step blind mating	bayonet
	mating references	visual and latch
Compensation of positioning tolerances of SFP module	z-axis	± 2.25 mm
	x,y-axis	± 0.4 mm (± 0.6 mm depending on SFP module)
Latching of LC connector	use of LC HQ technology	automating latching and unlatching
Mating durability	IEC 61300-2-2	100 cycles
Force on SFP module		no force in mated state

### Specifications

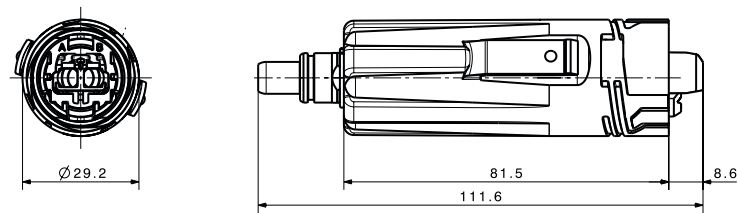
Technology		LC full ceramic ferrules
Housing material	connector	high-performance plastic
	socket	die-casting with zinc plating
Material flammability rating		UL 94-V0
Mechanical performance	IEC 61300-2-4	≤ 400 N tensile load
	IEC 61300-2-42	≤ 30 N static side load
	IEC 61300-2-5	180° cable torsion, passed
Thermal performance	operation, IEC 61300-2-22	- 40 °C to + 85 °C
	installation	- 40 °C to + 55 °C
Ingress protection	IEC 60529-20	IP 67 (mated or with dust cap)
Salt mist	IEC 61300-2-26, MIL-STD-202G Method 101E	192 h
Vibration	IEC 61300-2-1, MIL-STD-202G, Method 204G	passed 10 Hz - 500 Hz / 10 g
Shock	IEC 61300-3-3, MIL-STD-202G, Method 213B	passed 50 g
UV resistance	ISO 4982-2	passed 2000 h @ 2000 MJ/m²

### Optical performance

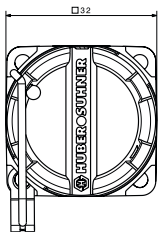
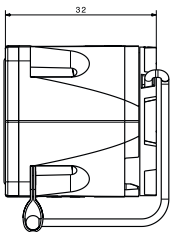
Insertion loss	singlemode	typ. ≤ 0.20 dB	97% ≤ 0.45 dB
	multimode	typ. ≤ 0.20 dB	97% ≤ 0.50 dB
Return loss	singlemode	≥ 50 dB	

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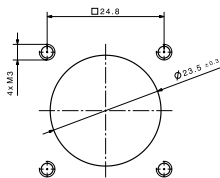
Q-XCO plug



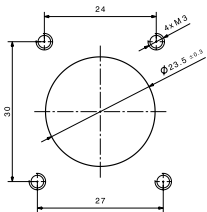
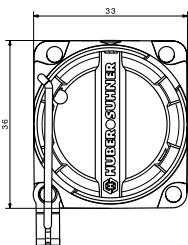
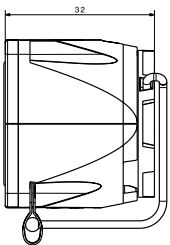
Q-XCO flange small



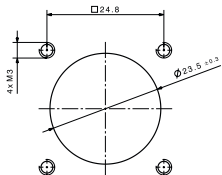
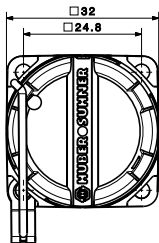
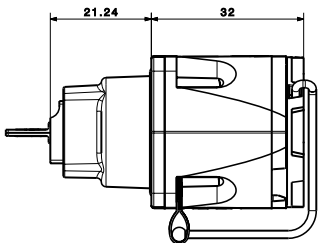
hole pattern



Q-XCO flange large with asymmetric build-in dimension




Q-XCO adapter



# Q-XCO – quick-lock ruggedized SFP connector

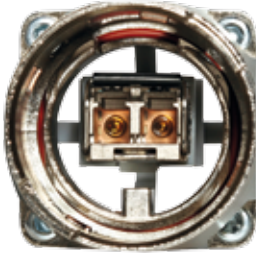
Description	Picture		Dust cap
XA (for assembly code)	Q-XCO connector		
Item no. 84108683	Q-XCO flange small		
Item no. 84108684	Q-XCO flange large		
Item no. 84118876	Q-XCO adapter singlemode		
Item no. 84137745	Q-XCO adapter multimode		

## Tolerance compensation




± 0.6 mm

± 2.25 mm



The connector compensates for all tolerances of SFP modules and for mounting tolerances



Exchange of SFP module  
Release and pull SFP module

## Mating sequence



Rotate to find correct keying position



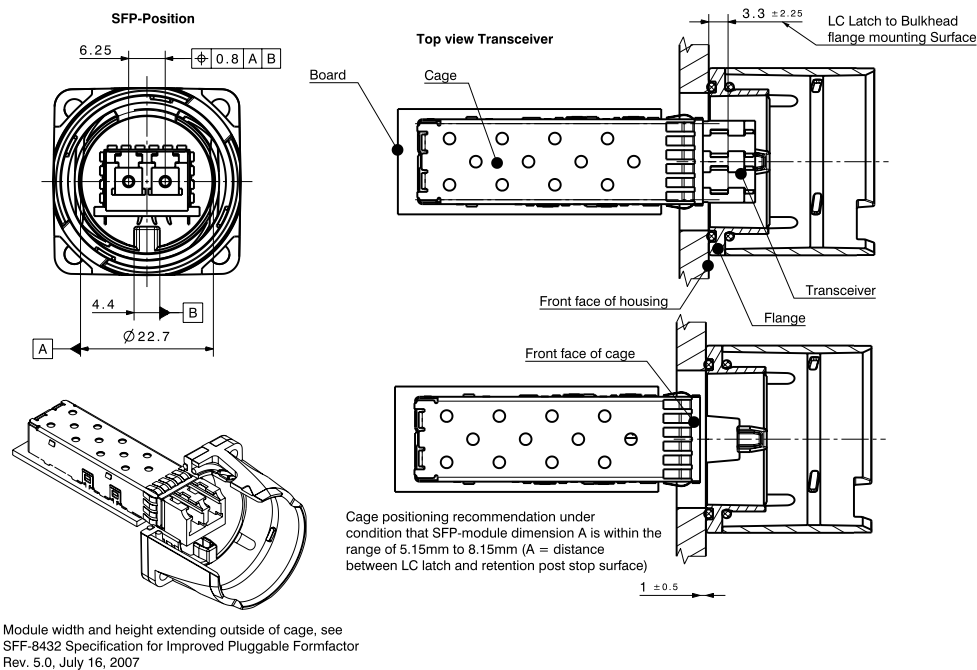
Slide connector into flange and rotate 155° until snap-in position



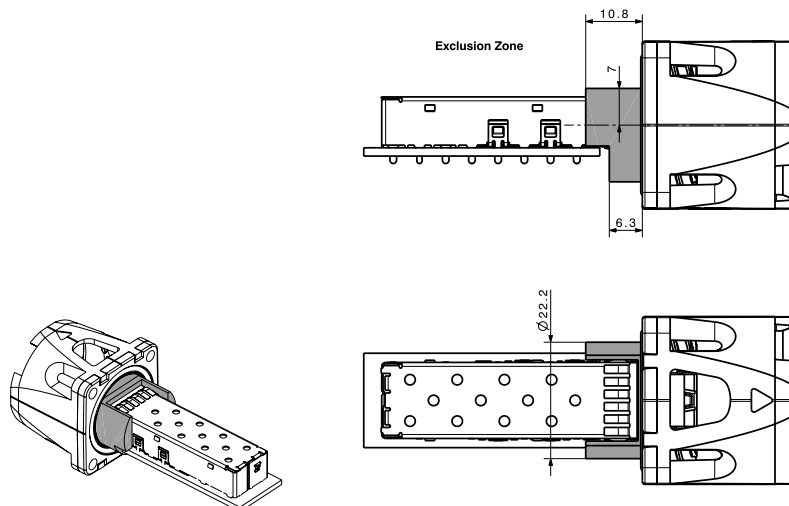
Connector mated with visual reference for correct installation

## Q-XCO – quick-lock ruggedized SFP connector

### SFP cage positioning specification



### Exclusion zone for connector mating



HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 and IRIS.

#### WAIVER

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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