

Harsh environment connectors

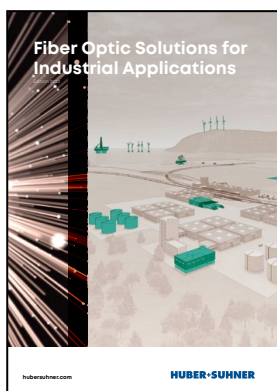
Edition 08/2026



Harsh environment connectors overview

	ODC based (outdoor connector) screw-lock		Q-ODC based (quick-lock outdoor connector) push-pull		
	ODC-2	ODC-4	Q-ODC-2*	Q-ODC-2 Industry*	Q-ODC-2 Mini
					
Number of fibers	2	4	2	2	2
Polishing	UPC	UPC	UPC / APC	UPC / APC	UPC
Mating cycles	1000	1000	200	5'000	50
Tensile load	800 N plug ≤30 N socket	800 N plug ≤30 N socket	450 N plug ≤30 N socket	450 N plug ≤30 N socket	150 N plug
Protection class IEC 60529	IP68 (30 days / 3 m)	IP68 (30 days / 3 m)	IP68 (30 days / 3m)	IP68 (30 days / 3 m)	IP65
Operating temperature IEC 61300-2-22	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Salt mist IEC 61300-2-26	720h	720h	720h	720h	720h

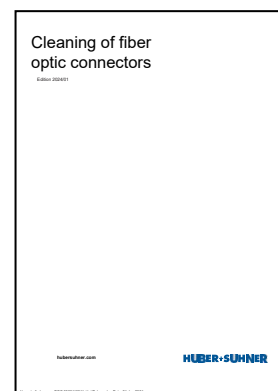
*cross-compatible connectors



Discover more about fiber optic solutions at
https://www.hubersuhner.com/asset/eyJpZGVudGlmYWVljo0NzU4OSwidHlwZSI6Im-Fzc2V0ln0=/EjgrUCMQbQWCqDGB/Fiber_Optic_solutions_for_industrial_applications.pdf



Discover more about wireless infrastructure at
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Discover more about FO cleaning instructions and guidelines at
<https://www.hubersuhner.com/en/newsroom/blog-and-literature/literature>

		LC Duplex based		
Q-ODC-12 / Q-ODC-24*	Q-ODC-12 Industry / Q-ODC-24 Industry*	XCO	Q-XCO	FullAXS
				
12/24	12/24	2	2	2
APC	APC	UPC / APC	UPC / APC	UPC / APC
100	500	500	100	100
450 N plug ≤ 30 N socket	450 N plug ≤ 30 N socket	≤ 500 N plug 30 N socket	≤ 450 N plug	150 N plug
IP68 (30 days / 3 m)	IP68 (30 days / 3 m)	IP67	IP67	IP65
-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
720h	720h	720h	720h	720h

*cross-compatible connectors



Scan here
Connectors webpage.
<https://www.hubersuhner.com/en/harsh-environment-connectors>

Youtube links on mating
and un-mating connectors



ODC 2



ODC 4



Q-ODC-2 Mini

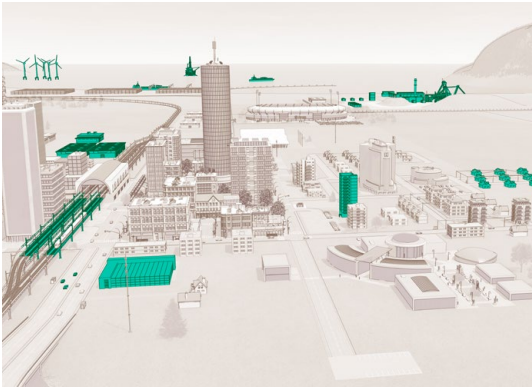


Q-ODC- 2



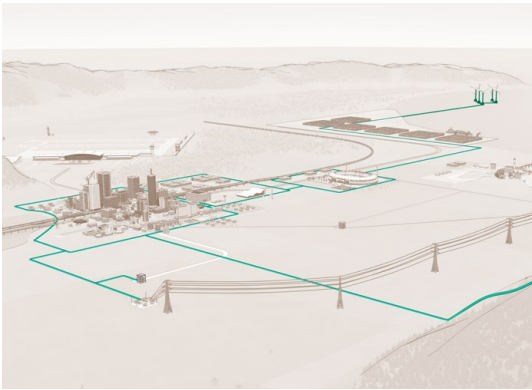
Q-XCO

Applications in the communication and industrial market



Communication applications

Three stages are crucial when deploying new communication infrastructure: planning, building and operation. HUBER+SUHNER solutions are addressing these three dimensions by reducing size of our products and with that simplifying site permitting procedures or we improve deployment cost and make maintenance much more simple. With our products, we create added value along those three dimensions and help reducing cost per bit.



Industrial applications

Connectors of HUBER+SUHNER for harsh environments are ubiquitous in industrial environments. From wind turbine control circuits, electrical substation data links, railway on-board and trackside communication networks to underground-mine remote operations, our selection of dual core to 24-core metal-encapsulated fiber optic connectors enable data streams to be transmitted reliably and easily.

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HUBER+SUHNER is certified according to ISO 9001, ISO 14001, OHSAS 18001, EN(AS) 9100, IATF 16949 and ISO/TS 22163 – IRIS.

Waiver

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