

ODC[®]-2 assemblies

ODC-2 outdoor connector



Features

- 2 fibers, single-mode or multi-mode
- Compact design with 2 × 1.25 mm ferrules
- Built-in socket with square or hexagonal flange
- Extension connector for cable chaining
- Screwed locking mechanism
- Easy and safe installation
- Waterproof, dust proof and corrosion resistant
- Waterproof protection caps
- EMI protected
- RoHs compliant
- Full compatibility with previous version
- Fulfills performance standard IEC 61753-1 Cat. E

Specifications

Technology		full ceramic ferrule and sleeve
Housing material		nickel-plated brass
Mechanical performance	ODC-2 plug	≤ 800 N tensile load ≤ 30 N static side load
	ODC-2 socket	≤ 30 N tensile load
Installation torque force	min. 1 Nm	max. 2 Nm
Operating temperature ¹⁾	IEC 61300-2-22	−40 to + 85 °C
Mating durability		1000 cycles ²⁾
Ingress protection (mated)	IEC 60529	IP68
Salt mist	IEC 61300-2-26	30 days passed
Vibration	IEC 61300-2-1	passed 10 to 500 Hz/10 g
Shock	IEC 61300-2-9	passed 100 g


¹⁾ depending on cable type

²⁾ with repeated cleaning

Optical performance

Insertion loss IEC 61300-3-34	single-mode	typ. ≤ 0.20 dB	97 % ≤ 0.45 dB
	multi-mode	typ. ≤ 0.20 dB	97 % ≤ 0.50 dB
Return loss	single-mode	≥ 50 dB	

Overview of ODC-2 connector types

Type	Type new	Connector	Dust cap		
A1	ODP1	ODC-2 plug 	screwed cap with pulling feature	IP68	
A4	ODP2		screwed cap with chain	IP68	
E1	ODE1	ODC-2 extension (socket type) 	screwed cap	IP68	
E3	ODE2		screwed cap with chain	IP68	
C1	ODS1	ODC-2 socket, square small 	screwed cap	IP68	
C3	ODS2		screwed cap with chain	IP68	
B3	ODR1	ODC-2 socket, hexagonal, mounted from rear 	screwed cap	IP68	
B4	ODR2		screwed cap with chain	IP68	



ODC – worldwide the most often installed remote radio interface

We believe there is no country in the world in which ODC assemblies have not been installed yet. There is no other RRH interface which is used more often and which was chosen by more system vendors.



The success comes from the fact that ODC is an extremely robust outdoor connector which withstands all installation hazards – and most importantly – does not permit handling errors. ODC makes mobile networks more reliable and guarantees 100 % performance.