



ONECLICK



FIBER OPTIC DISTRIBUTION BOX 12P ONECLICK

AR-DB-CDO-12P-HC

1. DESCRIPTION

Pre-connected optical distribution box as the most advanced FTTX network distribution node equipment, provide quick and reliable connection, good protection and management for the FTTX network.

Production type	Classification
AR-DB-CDO-12P-HC	Pre connected Fiber optic cable distribution box



Appearance of
AR-DB-CDO-12P-HC-1x4-8



Appearance of
AR-DB-CDO-12P-HC



Appearance of
AR-DB-CDO-12P-HC-50/50

2. STANDARDS COMPLY

The production offered by ARTIC are designed, manufactured and tested according to the standards as follows:

IEC 62134-1-2002	Fiber optic enclosures - Part 1: Generic specification
IEC61300-2	Fiber optic interconnecting devices and passive components - Basic test and measurement procedures
IEC60068-2	Basic environmental testing procedures for electric and electronic products

3. APPLICATIONS ENVIRONMENT

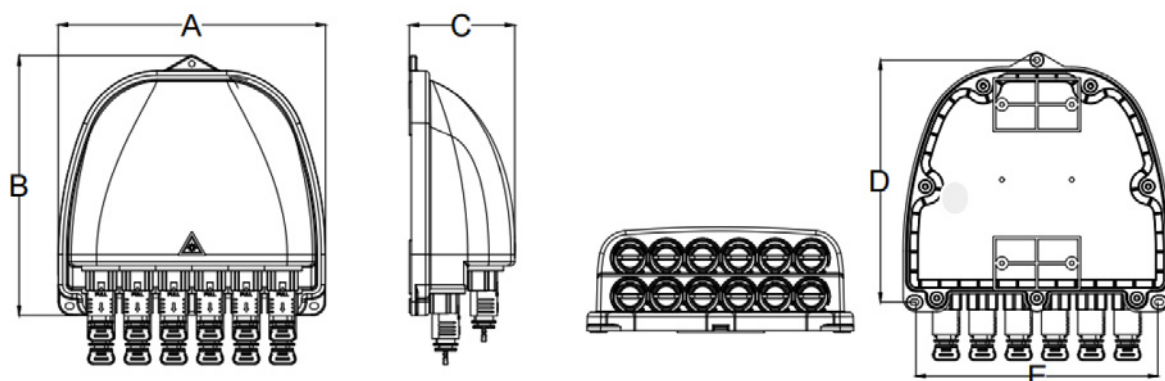
Item	Value
Operation temperature	-40 °C~+65 °C
Installation temperature	-15 °C~+40 °C
Storage temperature	-45 °C~+75 °C
Relative humidity	≤85% (+30°C)
Atmospheric pressure	70KPa~106Kpa

4. CHARACTERISTICS

- The bottom shell and the upper cover are fixed with screws, removable.
- Material: PP.
- Moisture proof, waterproof, dust-proof, anti-aging.
- Protection level up to IP68.
- The interior is equipped with 1x4 PLC splitter+ 1x8 PLC splitter or 1x8 PLC splitter.
- Installation method: pole-mounted, aerial-mounted, wall-mounted.
- It can be equipped with drop cable storage tray to meet the storage of 30 meters 5mm round cable.

5. SPECIFICATIONS

Mechanical specifications



Pic.2 - AR-DB-CDO-12P-HC / AR-DB-CDO-12P-HC-1X4-8 / AR-DB-CDO-12P-HC-50/50

Item	Specifications	Remark
Material of housing	Modified PP plastic or	
Material of internal components	PC +ABS/ABS	
Material of metal accessory	High-quality stainless steel	
External dimension (mm)	199*193*78.5mm	A*B*C
Color	Black	
Installation hole position (mm)	180*180	D*E
Number of Pre-connected adaptors	12	AR-DB-CDO-12P-HC-1x4-8 (1R, 3G, 8BK)
	9	AR-DB-CDO-12P-HC (1RED-8 BLACK)
	10	AR-DB-CDO-12P-HC-50/50 (1R, 1BL, 8BK)
Splitter	1x4 PLC Splitter + 1x8 PLC Splitter	AR-DB-CDO-12P-HC-1x4-8
	1x8 PLC Splitter	AR-DB-CDO-12P-HC
	1x2 PLC Splitter + 1x8 PLC Splitter	AR-DB-CDO-12P-HC-50/50
	1x2 FTB Splitter + 1x8 PLC Splitter	
IP grade	IP68	
Flammability	UL94-HB	Default
Neutral salt spray test (NSS)	48hs	

Optical specifications

Model	Splitter	IL(dB)		RL(dB)	IL(dB)	Test Method
		Splitter			Distribution Box	
AR-DB-CDO-12P-HC-1x4-8	1x4 PLC + 1x8 PLC Splitter, with SCAPC connector	1x4 PLC	≤7.4	≤55	≤7.6	IL: IEC61300-3-4 Method B RL: IEC61300-3-6 Method 1
		1x4 PLC + 1x8 PLC	≤17.9	≤55	≤18.1	
AR-DB-CDO-12P-HC	1x8 PLC Splitter, with SCAPC connector	1x8 PLC	≤10.5	≤55	≤10.7	
AR-DB-CDO-12P-HC-50/50	1x2 FTB (50/50) + 1x8 PLC Splitter, with SCAPC connector	1x2 FTB (50%)	≤3.8	≤55	≤4.0	
		1x2 FTB (50%) + 1X8 PLC	≤14.3	≤55	≤14.5	

The optical parameters shown in the table above are default values, and can be customized according to requirements.

6. PORT COLOR

Color code

● Red

● Blue

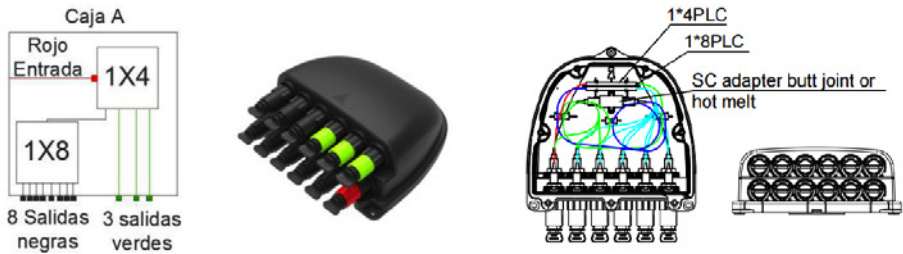
● Green

● Yellow

● Black

The color of the producto may vary and is for reference only.

7. ROUTING DIAGRAM



Pic.3 AR-DB-CDO-12P-HC-1x4-8 (1 * 4 PLC + 1 * 8 PLC Splitter Cable Ways)



Pic.4 AR-DB-CDO-12P-HC (1 * 8 PLC Splitter Cable Ways)

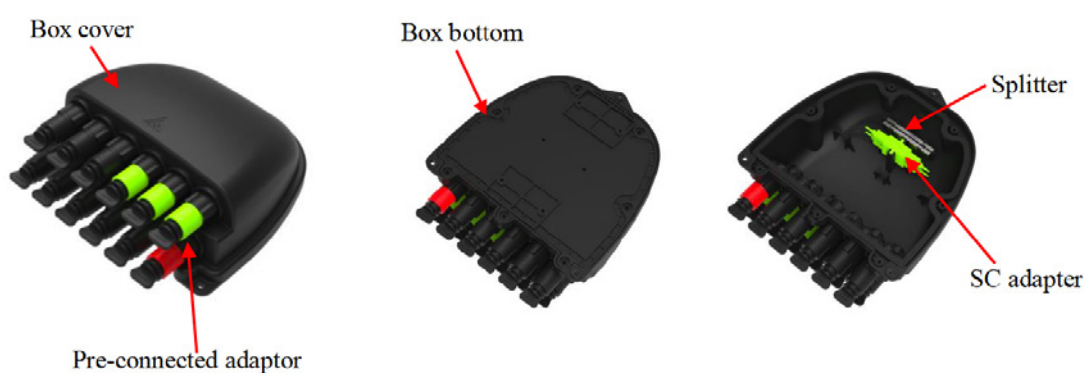


Pic.5 AR-DB-CDO-12P-HC-50/50 (1x2 PLC/FTB splitter+ 1x8 PLC splitter Cable Ways)

8. CONFIGURATION

Main parts

No.	Part name	Unit	Quantity	Remark
1	Box bottom	pcs	1	
2	Box cover	pcs	1	
3	Pre-connected adaptor	pcs	12	AR-DB-CDO-12P-HC-1x4-8
4		pcs	9	AR-DB-CDO-12P-HC
		pcs	10	AR-DB-CDO-12P-HC-50/50
5	Splitter 1x4 PLC	pcs	1	Only installed in AR-DB-CDO-12P-HC-1x4-8
6	Splitter 1x8 PLC		1	



Pic.6 Structure

No.	Part name	Unit	Quantity	Remark
1	Users manual	pcs	1	EN
2	Splitter test report	pcs	1	EN
3	Wall-mounted kit	set	1	Optional as customer's request
4	Pole mounted kit	set	1	Optional as customer's request
5	Aerial-mounted kit	set	1	Optional as customer's request
6	Drop cable storage tray A	set	2	Optional as customer's request
7	Drop cable storage tray B	set	1	Optional as customer's request

Reference picture



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6



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9. INSTALLATION

Wall-mounted installation

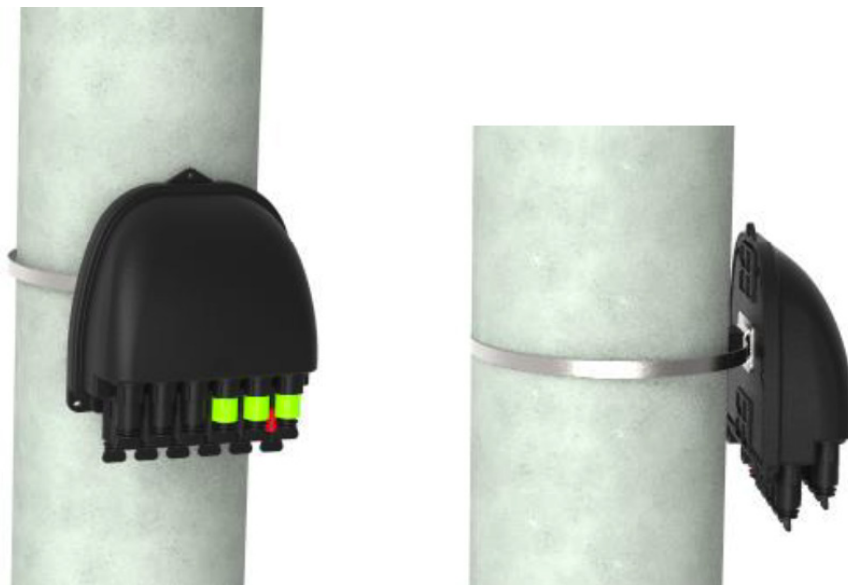
Drill 3 holes in the wall according to the dimension in table 2, place the expansion plug $\Phi 7.5 \times 40$, place the box to match up the holes and use screws to fasten. (Pic 7)



Pic.7 Wall mounted installation

Pole-mounted installation

Pass the stainless steel belt through the slot of the back plate and fix it on the pole (Pic 8)



Pic.8 Pole-mounted installation

Aerial -mounted installation

Hang the hook on the messenger, and tighten the bolts and nuts of the hook. (Pic.9)



Pic.9 Aerial-mounted installation

Wall-mounted installation (With drop cable storage tray)

Drill 4 holes in the wall according to the dimension of the drop cable storage tray mounting hole, place the expansion plug $\Phi 7.5 * 40$, place the box to match up the holes, and fasten with the screws. (Pic10)



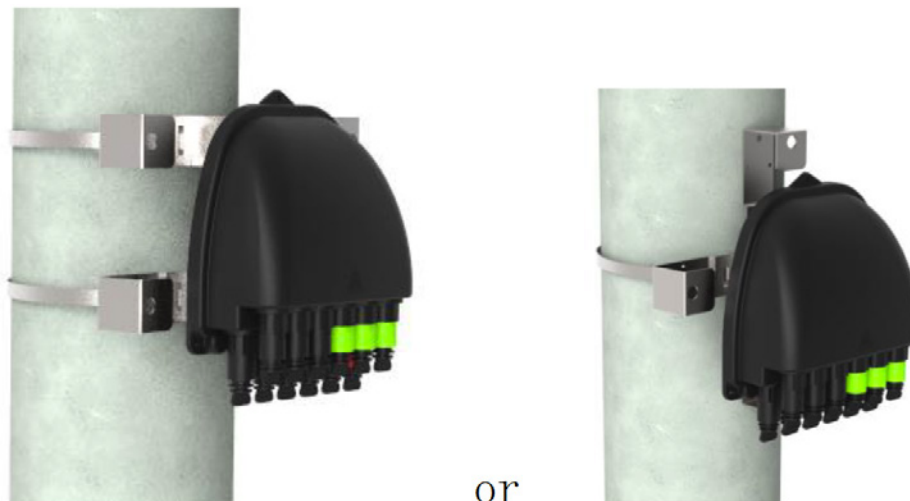
or



Pic.10 Wall-mounted installation (With drop cable storage tray)

Pole-mounted installation (With drop cable storage tray)

Pass the stainless steel belt through the slot of the drop cable storage tray and fix it on the pole with buckle. (Pic 11)

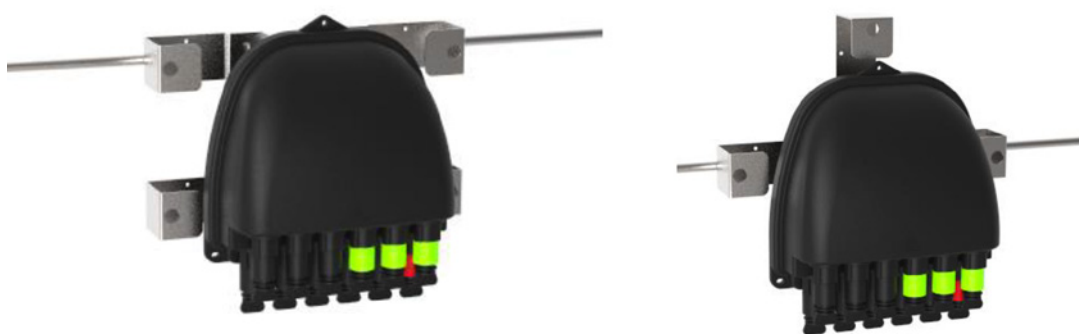


or

Pic.11 Pole-mounted installation(With drop cable storage tray)

Aerial-mounted installation (With drop cable storage tray)

Use the small metal plate to fix the distribution box to the messenger. (Pic 12)



or

Pic.12 Aerial-mounted installation (With drop cable storage tray)

10. PACKAGE

Item	Material	Size (mm)	Quantity	Gross weight (kg)
Independent product packaging	Carton	215*205*85	1	0.8
Outer packaging carton	Carton	450*430*450	20	17

Note: Without drop cable storage tray