

# Photoelectric Adapter XC/UPC-XC/UPC Datasheet 01

Building an Efficient Fiber Infrastructure

## Overview

The photoelectric adapter is used to connect two XC photoelectric composite QuickConnect cables for cable extension. It is made of high-quality materials and features high reliability and durability.

### Features & Benefits

- Quick connection and easy installation
- Small size and simple structure
- Protected to IP54
- High construction reliability, tensile strength up to 70 N

## Structure



## Specifications

|                |                                                             |
|----------------|-------------------------------------------------------------|
| Adapter type   | XC/UPC-XC/UPC                                               |
| Insertion loss | Typical value $\leq 0.1$ dB<br>Maximum value $\leq 0.25$ dB |

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Reseating times                       | ≥ 50 times                                                              |
| Insertion and extraction force        | ≤ 19.6 N                                                                |
| Tensile strength of locking mechanism | ≥ 70 N                                                                  |
| Dimensions (H x W x D; unit: mm)      | 55 x 14 x 14                                                            |
| Net weight                            | 12 g                                                                    |
| Color                                 | White                                                                   |
| Contact resistance                    | ≤ 20 mΩ                                                                 |
| Insulation resistance                 | ≥ 500 MΩ                                                                |
| Dielectric withstand voltage          | 1000 V DC between positive and negative poles<br>1500 V DC pin to shell |
| Rated current                         | 0.25 A                                                                  |
| Flame retardant rating                | UL94-V0                                                                 |
| RoHS                                  | Compliant                                                               |

## Environmental Parameters

|                       |                   |
|-----------------------|-------------------|
| Operating temperature | −10°C to +65°C    |
| Storage temperature   | −40°C to +70°C    |
| Operating humidity    | ≤ 95% (+40°C)     |
| Atmospheric pressure  | 70 kPa to 106 kPa |

## Installation Guide

### Installing a Photoelectric Adapter



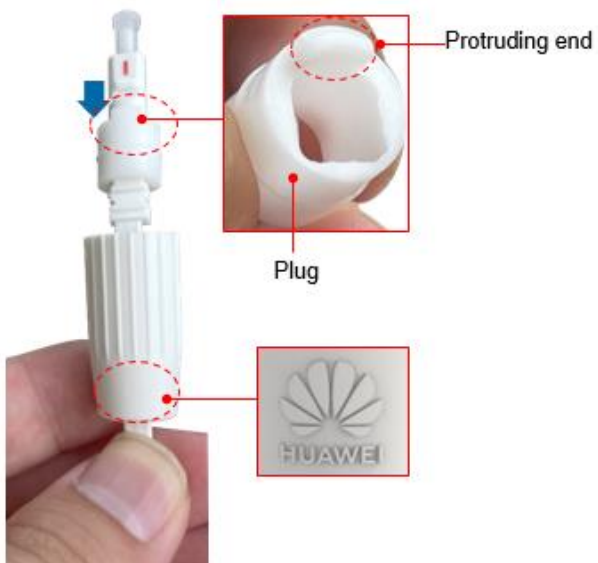
Step 1 Take out a photoelectric adapter from the fittings bag.



Step 2 Route a photoelectric composite cable through the dustproof cap of the photoelectric adapter.



Step 3 Insert the photoelectric composite cable into a plug. Ensure that the protruding end faces outwards.



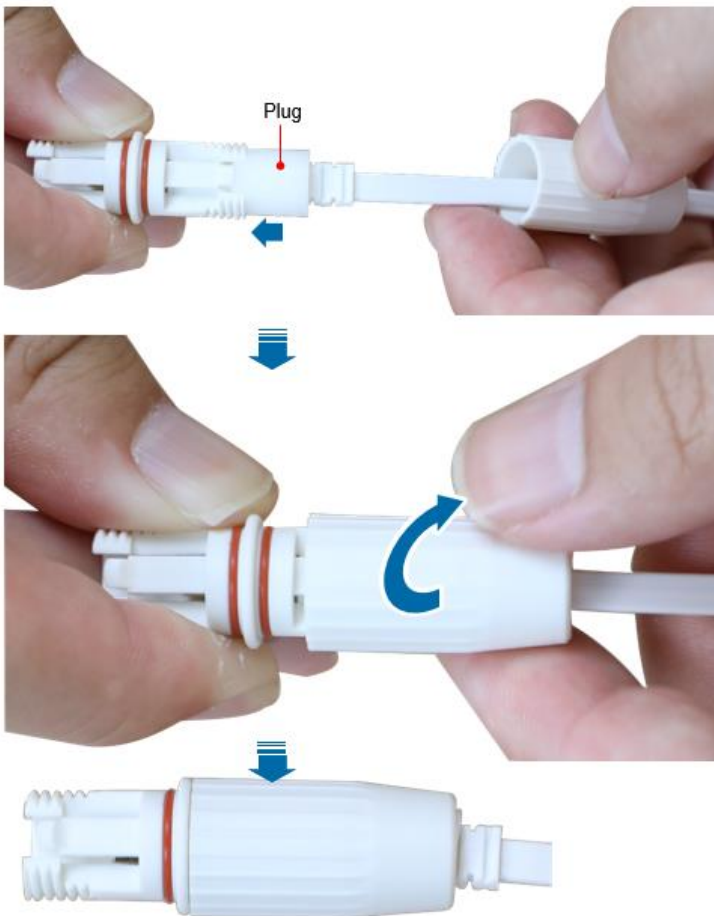
Step 4 Remove the dustproof cap from the photoelectric composite cable.



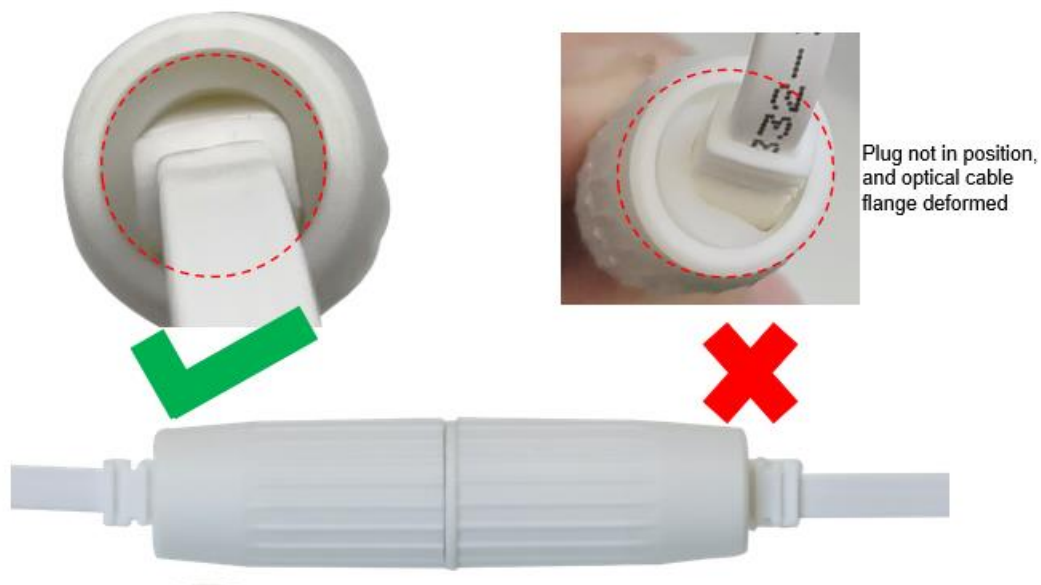
Step 5 Insert the photoelectric composite cable into the photoelectric adapter and snap it into place until you hear a click sound.



Step 6 Push the plug into the slot of the photoelectric adapter, and rotate and tighten the dustproof cap.



Step 7 Repeat the preceding steps to insert another photoelectric composite cable into the photoelectric adapter. After the installation, ensure that the plug is properly installed and does not generate excessive strain. The photoelectric composite cables are connected.



#### NOTICE

If the plug is not properly installed, the protection level will be lowered.  
It is recommended that you use each photoelectric adapter for only 1–2 times.

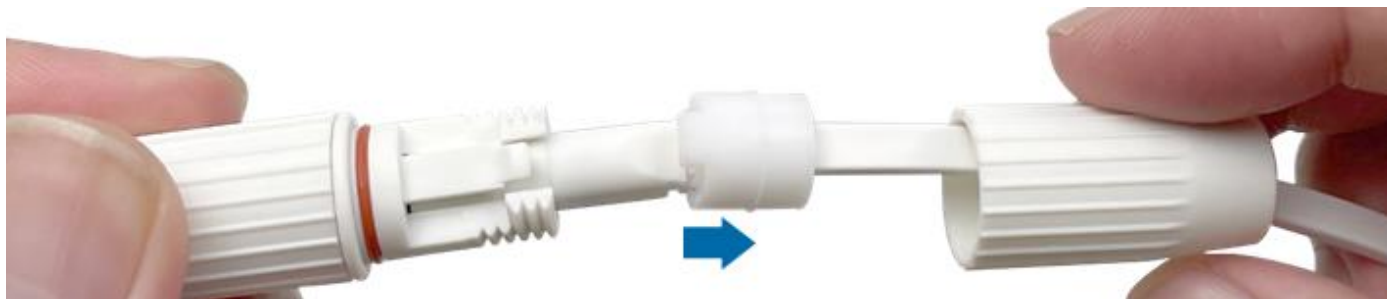
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### Removing a Photoelectric Adapter

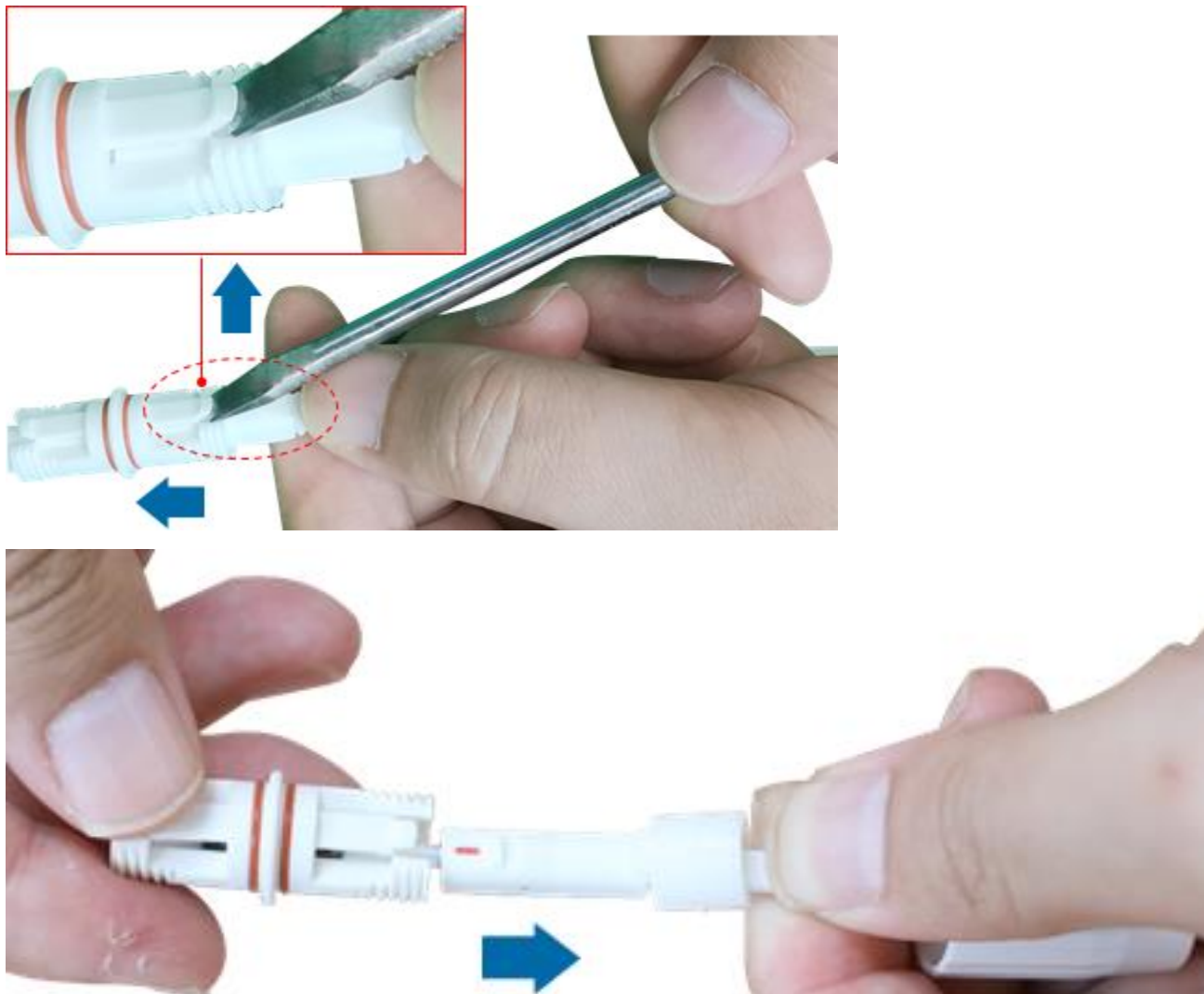
Step 1 Loosen the dustproof cap and remove it.



Step 2 Remove the plug.



Step 3 Pry up the adapter spring using a flat-head screwdriver and remove the photoelectric composite cable from the adapter.



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