ACE DIN wall outlet

ACE-II-DIN wall outlet-v01-e   date :   24-06-2016

Table of Contents

1   Introduction

The ACE DIN wall outlet (ACE-DWO) allows the connection of fibers from an outdoor cable to the (indoor) media convertor. It is the customer outlet installed inside the apartment, against the wall or in a distribution box. When the incoming cable comes directly from the operator's network, the ACE-DWO can represent the demarcation, measuring and testing point. The ACE-DWO is available with 1, 2, 3, or 4 optical outputs (ie. SC/APC interface).

Advantages of the ACE-DWO:
• Compact outlet with 4 optical outputs:
    o The compact (80 x 80 mm) and optimised design ensures an easy and convenient integration among other types of sockets in the house
    o Designed to be discrete inside the customer premises
• Equipped with (max. 4) SC-APC adapters with integrated internal shutter for dust and laser protection
• Versatile installation possibilities:
    o Surface-mounted on wall or on flush-mounting box
    o Incorporated in the home network cabinet thanks to DIN-rail mounting.
• Keen and intuitive installation:
    o Presence of built-in spirit levels to ensure good positioning during installation
    o 8 possible mounting holes: 4 with a diameter of 60mm for flush-mounting box and 4 additional ones at the edges of the mounting plate.
    o The mounting plate is sufficient large for use with adhesive tape
    o 6 cable entries: back, bottom, right, left and two outlets on top of the ACE-DWO when the cable enters from above at the wall corner.
    o The raised position of the cassettes with adaptors ensures an easy installation of pigtails and splices.
    o The mounting plate and the socket housing can be installed separately. This allows the cable installation at a certain distance from the wall e.g. less tedious.

ACE-DWO 1 FO

ACE-DWO 2 FO

ACE-DWO 4 FO

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- The ACE-DWO can be delivered in pre-connectorized kits of various cable length.

Cardboard packaging

1.1 Document history

| Version	Date	Comment
01	24-06-2016	First release

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2 Technical specifications

Optical fibre standard
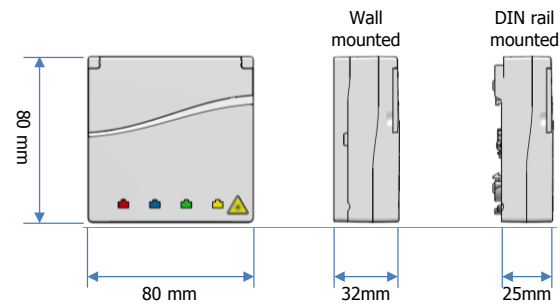The terminated cables are provided with G.657.A2 fibre

Connectors
The kits are equipped with SC/APC connectors and SC/APC adaptors with internal dust and laser protection shutters.
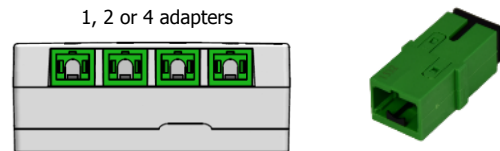
1, 2 or 4 adapters

SC/APC adapter with internal shutter

ACE-DWO Housing
The material of the ACE-DWO housing is RAL 9010 white PC/ABS.

Wall mounted   DIN rail mounted

80 mm

80 mm   32mm   25mm

Dimensions

The housing is equipped with 1, 2 or 4 SC/APC optical adaptors.

Housing 1 adapter version

Pre-cabled kit:
For smooth installation proceeding in the field, the housing has already been mounted on one end of the cable. The other end of the cable is delivered with a pulling loop.

Pre-connectorized kit:
As with the pre-cabled kit, the housing has already been mounted on one end of the cable. The other end of the cable has been factory-mounted with SC/APC optical connectors and protected with a pulling sock, allowing it to be inserted into Ø25 mm conducts.

Packaging
The kits are delivered in dispenser reels (100% recyclable carton) containing cables for internal or external use.

Remark
In order to recycle the product, please contact the local authorities to obtain the correct method of disposal.

Cardboard box

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Mounting plate

The mounting plate is equipped with built-in spirit level and is used for fixing the ACE-DWO during installation on the wall or on the flush-mounting box.

Screws and plugs

The OTP is delivered with accessories for wall-mounting with 2 screws and 2 plugs. A cable tie is included to fix the cable or tube in the ACE-DWO.

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3   Installation proceeding

Follow the instructions on the dispenser reel.
Note that accessories are delivered in the core of the packaging

Place the optical cable in the conduct using the guide line (minimum conduit diameter Ø20 mm for pre-cabled kit and Ø25 mm for pre-connectorized kit).
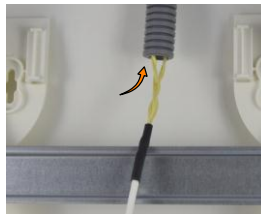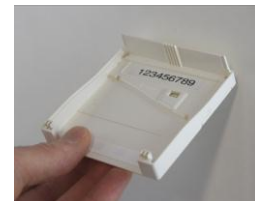

At the end of the unwinding of the cable, open up the dispenser reel to retrieve the ACE-DWO.

Clip the optical ACE-DWO onto the DIN rail of the network cabinet.

Place the identification labels on the cover (a label under the flap and another underneath the cover).
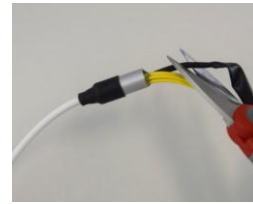

In order to carry out performance check or connect a device to the optical network, insert the optical patch-cord into an adaptor in the ACE-DWO.

For the pre-connectorized kit:
after retrieving the pulling sock at the other end of the conduit (Ø25 mm min.) remove the adhesive tape and the grip to release the separation zone of the fibre cords.
Cut away the black tube then remove the complete pulling sock and release the pre-mounted optical connectors

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4   Use as wall-mounted ACE-DWO on the flush-mounting box

Follow the instructions on the dispenser reel.
Note that accessories are delivered in the core of the packaging

Screw the mounting plate on the flush-mounting box while making sure that it is correctly positioned. Don't screw the plate too tight.

Place the optical cable in the conduit using the guide line (conduit with Ø20 mm min. for pre-cabled kits and Ø25 mm min. for pre-connectorized kits).

At the end of the unwinding of the cable, open up the dispenser reel to retrieve the ACE-DWO.

Once the entire cable length has passed through the conduct, clip the ACE-DWO onto the mounting plate.

Place the identification labels on the cover (a label under the flap and another underneath the cover).

In order to carry out performance check or connect a device to the optical network, insert the optical patch-cord into an adaptor in the ACE-DWO.

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For the pre-connectorized kit:
after retrieving the pulling sock at the other end of the conduit (Ø25 mm min.) remove the adhesive tape and the grip to release the separation zone of the fibre cords.
Cut away the black tube then remove the complete pulling sock and release the pre-mounted optical connectors

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5   Use as ACE-DWO with surface cable

Follow the instructions on the dispenser reel.
Note that accessories are delivered in the core of the packaging

Screw the mounting plate onto the wall with 2 screws and plugs.

60 mm

46 mm
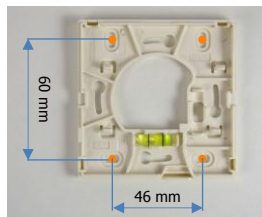
Fix the mounting plate onto the wall with two double-sided adhesive tapes (not provided).
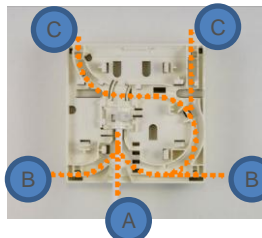

75 mm max
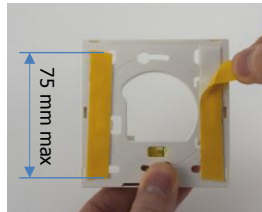
Open the cable outlet on the mounting plate:
A.   Outlet from the bottom
B.   Outlets at the sides for cabling along baseboards
C.   Outlets from above for cabling at the corner of the wall
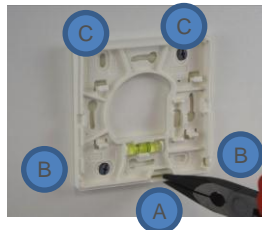
At the end of the unwinding of the cable, open up the dispenser reel to retrieve the ACE-DWO.

Route the cable on the base in order to guide the cable towards the outlet corresponding to the opened one on the mounting plate.

Clip the ACE-DWO onto the mounting plate.

Click

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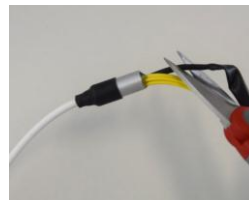
Place the identification labels on the cover (a label under the flap and another underneath the cover).

In order to carry out performance check or connect a device to the optical network, insert the optical patch-cord into an adaptor in the ACE-DWO.

For the pre-connectorized kit:
after retrieving the pulling sock at the other end of the conduit (Ø25 mm min.) remove the adhesive tape and the grip to release the separation zone of the fibre cords.
Cut away the black tube then remove the complete pulling sock and release the pre-mounted optical connectors

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6 Cleaning a connecting point or replacing an adapter

Opening the housing
Lift the flap, then push the clip upwards and tilt the cover towards the front.

Disassemble the connection point
Move the adaptor outwards and pull the connector out the adapter.
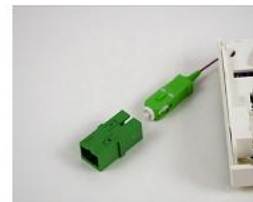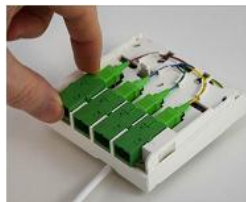
Cleaning the connection
Clean the optical connectors and adapters with the proper materials, like the TKF cleaner pen; article number 430161 (for SC adapters and connectors). In case the adapter is too dirty it should be replaced.
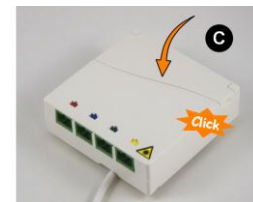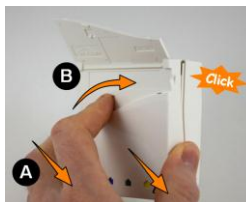

Remounting the connection point
Place the adaptors back into the housing, with the internal dust and laser protection shutters facing outwards and the polarising key on top of the housing.
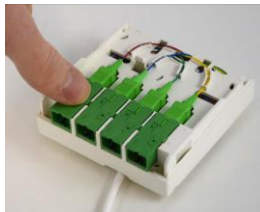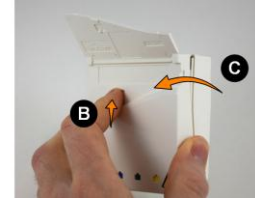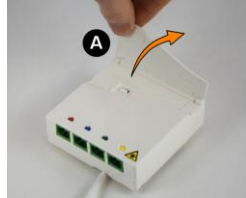

Closing the housing
Mount the cover by first inserting the clip below then tilt the cover backwards. Close the flap subsequently.

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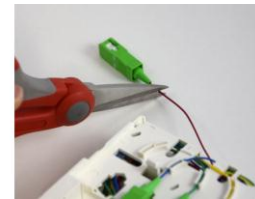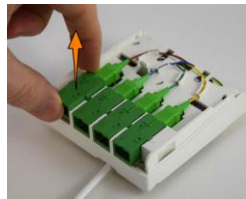# 7   Replacing an optical connector

Opening the housing
Lift the flap, then push the clip upwards and tilt the
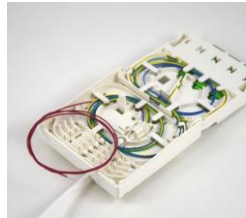cover towards the front.

De-mounting the faulty connection point
Take the adaptor out of the housing and pull the
connector out of the adapter.
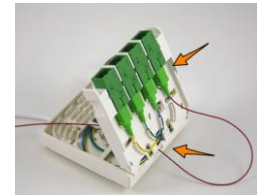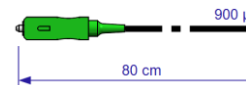Cut the connector from the buffered fibre.

Remove the fibre
Remove the complete buffered fibre
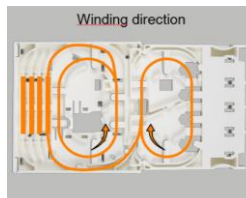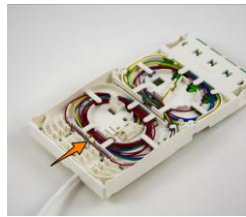

Replace the pigtail
Replace the faulty pigtail with a 80mm pigtail.
Additionally a splice protector is needed.
Adhere to the colour-coding and the proper rules.

900 µm

80 cm

Routing the optical fibre
Place the splice protector at the designated area, and
wind the optical fibre around the routing spools by
taking into account the winding direction and the
curvature radius of the fibre.

For the green and yellow fibres, it is necessary to
change the winding direction in the cassette.

Winding direction

Inversion of the winding direction

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Closing the housing
Close the cassette, then mount the cover by first inserting the clip below then tilt the cover backwards.

Close the flap subsequently.

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