

General

POF (Polymer Optical Fiber) is a plastic optical fiber to transfer data via light with a wavelength harmless for the eyes. The POF-cable consists of a plastic core for data transmission which is protected by a plastic coating. The cable will directly connected at an optical connector without any special tools. Time consuming tests complex analyzer are not necessary. Therefore, the installation saves time and money!

Applications

- PC network
- Internet access
- Multimedia/"Triple/Quad Play"
- Online-Gaming
- Multiroom-Audio

Recommended tools

- Cable unwind device
- Fish draw tape
- Insulating tape
- Wire cutter
- POF cutting tool

Laying the POF-cable

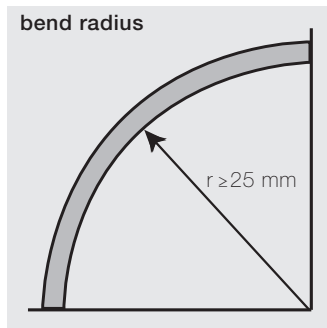
The POF-cable is intended for the installation in buildings. It is suitable for the following types of installation

- surface mounting
- flush mounting
- conduits
- cable ducts
- installation in floors.

The material is insensitive against almost all commercially available plasters, paints (no paints with nitro or alcohol), coatings, cement or other materials. When installing in plaster or concrete, avoid tensions and heat development (be-

cause temperatures of more than 80 °C could damage the transparent plastic core of the cable). Because of the low diameter the electrician the POF cable is supposed to be put in empty ducts with the electrical installation. Alternatively the POF-cable can be laid nearly unseen behind baseboards, under carpets, behind door cases, or shelves.

- When fastening the POF-cable observe the following, that
- the cable will **not be twisted** while unwinding.
 - exert **no strong pressure** onto the POF-cable, by using metallic objects like paper clips, nails, or similar things for fastening.
 - only **solvent-free adhesives or silicone** (no cyanoacrylate, contact adhesive, PVC and hot glue) will be used.
 - **no mechanical (sharp edges) or chemical strain** in order not to damage or destroy it.
 - the cable is neither **squeezed** nor **bent**.
 - the **bent radius** is not at least approx. **25 mm** (a bend radius < 10 mm will damage the cable strongly).



Cutting and connecting the POF-cable

⚠ In case the POF-cable is supposed to be put in empty cable ducts together with the electrical installation or in case any other operations on the electrical installation will be necessary, note, that this work must be performed exclusively by authorized and experienced professionals.

After having laid the POF-cable shorten it to the appropriate length by using the POF cutting tool as describe below and make sure that both wires are equally long:

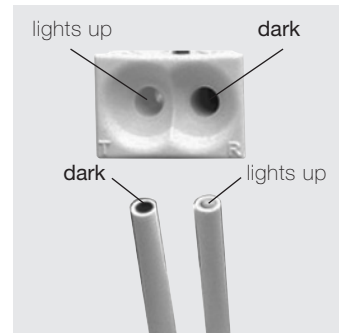
- 1 Cautiously split the cable down the middle and make sure that there is no unevenness on the coating which could hinder the inserting of the cable.
- 2 Insert the cable into the POF cutting tool and cut it by pressing the blade.



- 3 Make sure that both wires are equally long.

When connecting the POF-cable make sure to insert the bright wire into the dark (not bright) terminal and the dark (not bright) wire into the bright terminal.

Testing the installation



Make sure that after having connected the POF-cable to both converters, the POF LED on the device is on. This signals the correct connection. Further link actions after having connected Ethernet devices will be signalled by the other LED:

LED		status	
POF	flickers	activity	
	lights up	optical link	
RJ45	flickers	activity	
	lights up	Ethernet link	

Otherwise, you should check the installation for cable breaks or kinks.

Scope of products

POF/UAE 1xUp 1.5 mm	<u>180 104 02</u>
POF/UAE 1xUp 2.2 mm	<u>180 104 03</u>
POF/UAE 2xUp 1.5 mm	<u>180 104 06</u>
POF/UAE 2xUp 2.2 mm	<u>180 104 07</u>
Installation instructions	293 616
POF/UAE 1xPPR 1.5 mm	<u>280 102 01</u>
POF/UAE 1xPPR 2.2 mm	<u>280 102 00</u>
Installation instructions	293 629
POF/UAE 3xAp 1.5 mm rw	<u>180 101 01</u>
POF/UAE 3xAp 2.2 mm rw	<u>180 101 02</u>
Installation instructions	293 630
Patch cable; 0.23 m	<u>235 102 02</u>
POF cutting tool	<u>392 000 04</u>

Accessory (optional)

50 m ring POF cable, 1.5 mm rw	<u>180 000 00</u>
500 m coil POF cable, 1.5 mm rw	<u>180 000 01</u>
500 m coil POF cable, 2.2 mm sw	<u>180 000 02</u>

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