



## SC/APC Female – SC/APC Female Optical Duplex Adapter Single- mode (SM)

Adapter for connecting male optical connectors, with SC mechanics, at both ends. Both connectors must have the same type of polish to avoid signal loss. It is recommended to always use connectors of the same colour as the adapter, to identify the type of polish on the other end: APC (green). It has an internal shutter, that automatically blocks the light from passing through when the connector is removed, ensuring protection of the eyes. It incorporates a black dust cap. Compatible with single-mode (SM) fibres.

<b>Ref.</b>	233217
<b>Logical ref.</b>	OA2SCAPCB
<b>EAN13</b>	8424450322413

### Other features

<b>Colour</b>	Green
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### Packaging info

<b>Plastic box</b>	20 pcs.
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### Physical data

<b>Net weight</b>	7.00 g
<b>Gross volume</b>	0.80 dm <sup>3</sup>
<b>Gross weight</b>	8.00 g
<b>Width</b>	44.00 mm
<b>Height</b>	35.00 mm
<b>Depth</b>	9.00 mm
<b>Main product</b>	7.00 g

## Highlights

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- Low insertion losses and high reliability
- Allows installation using a retaining clip (included), or securing screws, to keep the adapter fixed
- It avoids false contacts, as well as occasional disconnections
- Body made of plastic (polymer), mechanically resistant to impact or corrosion
- Green colour
- Duplex, for the connection of two fiber cables at each end

## Discover

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### What is a fiber optic adapter and what does the colour indicate?

A fibre optic adapter is used to join two optical connectors by aligning the fibres present in the adapter and/or connector. Each end of an adapter can be either male or female.

**Female** adapters normally face the connectors and align their fibres, so they are not normally specific to a particular polish, but the user can decide the type of polish that connects the ends. The colour of a female adapter does not require the use of a specific fibre type and polish, but it is advisable to respect it to easily identify the type of fibre connected.

The **male** adapters include a ceramic or plastic ferrule that protects and aligns the fibre as it is inserted into the female end. This ferrule is polished and the user should ensure that the polish on the other end is compatible. The colour of a male adapter identifies the type of fibre and polish.

To ensure a link with the lowest possible light loss, it is imperative that the two fibres that are connected to the adapter have a compatible polish:

- The **APC** (Angle Physical Contact) polish has an 8° angle cut, and is only compatible with other APC polishes.
- The **PC** (Physical contact) polish has a convex cut, and is compatible with other convex polishes, such as PC and also UPC.

- The **UPC** (Ultra Physical contact) polish has a convex cut, thinner than PC, and is therefore compatible with both PC and UPC polishes.

The colour of the adapter helps to identify at a glance the type of fibre and the polish of the connected fibre, and manufacturers usually follow the following recommendations:

- **Green:** Single-mode (SM) fibres with APC polish.
- **Blue:** Single-mode (SM) fibres with PC or UPC polishing.
- **Beige:** Multimode (MM) fibres, no polish identified.
- **Aqua blue:** OM3 Multimode (MM) with PC or UPC polishing
- **Magenta:** OM4 Multimode (MM) with PC or UPC polishing
- **Lime green:** OM5 Multimode (MM) with PC or UPC polishing

At Televes we follow this recommendation to **facilitate the installation and maintenance of fibre networks** and to avoid possible confusion in the connectorisation.

## Technical specifications : Ref. 233217

Optical connector type 1			SC
Polishing type (Optical connector 1)			APC
Optical connector type 2			SC
Polishing type (Optical connector 2)			APC
Connection type			Female/Female
Fiber type			Single-Mode (SM)
Ferrule			Ceramic
Protection cap			Shutter
Shutter type			Internal
Insertion losses	dB		0.2
Return losses	dB		60
Durability (connection cycles)			1000
Housing material			Plastic
Fastening type			Click
Operating temperature	°F		-40 ... 185