

# SOLARIXPEDIA

CPR: System for assessment and verification of constancy of performance (AVCP)

## WHAT IS AVCP?

- AVCP = Assessment and Verification of Constancy of Performance
- It is a system under which products (e.g. cables) are **classified** into fire reaction classes
- Activities within these systems are carried out by a **notified body**, i.e. an **independent testing laboratory** with the accreditation required for the given AVCP system
- The individual **systems and activities** related to the classification of communication cables are listed in the table below

## ACTIVITIES OF NOTIFIED BODIES UNDER AVCP MODES

	AVCP 1+	AVCP 3	AVCP 4
Initial product performance test	✓	✓	✗
Regular product verification tests	✓	✗	✗
Initial production inspection	✓	✗	✗
Regular production inspections	✓	✗	✗
Relevant reaction to fire classes	<b>B2ca a Cca</b>	<b>Eca a Dca</b>	<b>Fca</b>

# EXAMPLES OF CABLE ASSESSMENTS

- Cables with reaction to fire classes **Eca** and **Dca** are assessed by a notified body under the **AVCP 3** system only once, always before the respective cable is placed on the EU market. During this test, it is verified whether the cable properties comply with the declared reaction to fire class (i.e. Eca or Dca).
- Cables with fire reaction classes **B2ca** and **Cca** are, under the **AVCP 1+** system, assessed regularly every three years in addition to the initial testing. AVCP 1+ also includes initial and periodic audits of manufacturing processes, aimed at ensuring the constancy of product performance throughout the entire product life cycle.
- Under the **AVCP 4** system, cables are not assessed by a notified body, and the reaction to fire class **Fca** usually includes cables without special **fire-resistant properties** (i.e. such cables do not meet the requirements of any of the Eca, Dca, Cca, or B2ca classes).