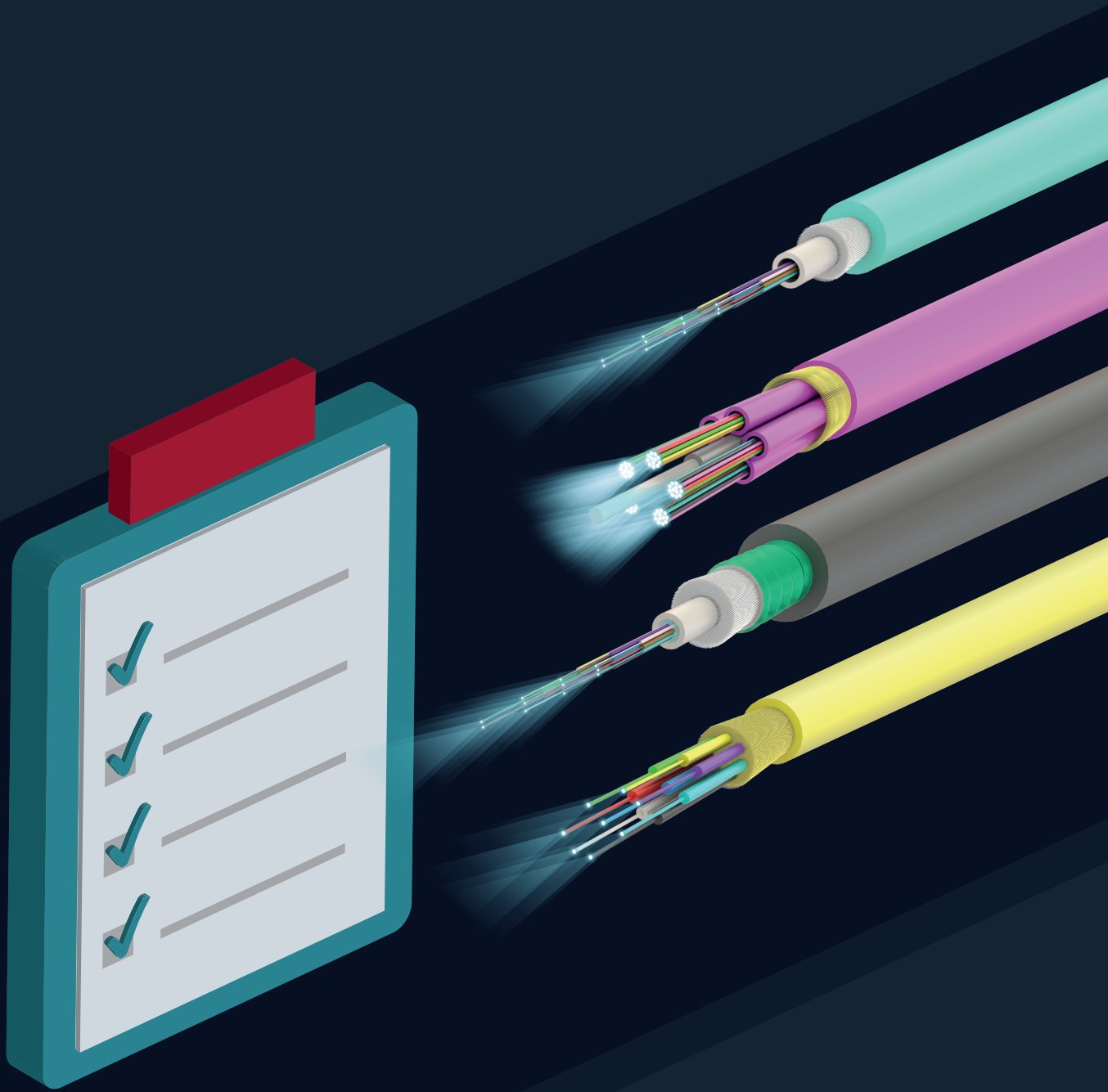




SAMM TEKNOLOJI
LABORATORY



FIBER OPTIC TESTING

Our Laboratory Assets



Qualified Employees

Our laboratory employs managers, engineers and technicians who are experts in their fields.



Flexibility and Efficiency

We do all of our testing in-house utilizing efficient procedures. This propels us forward in a self-contained, quick, and adaptable manner.



Versatile Service

Our test laboratory, fiber optic test equipment sales, technical support, and calibration department are all located under one roof, which is our most distinguishing feature.



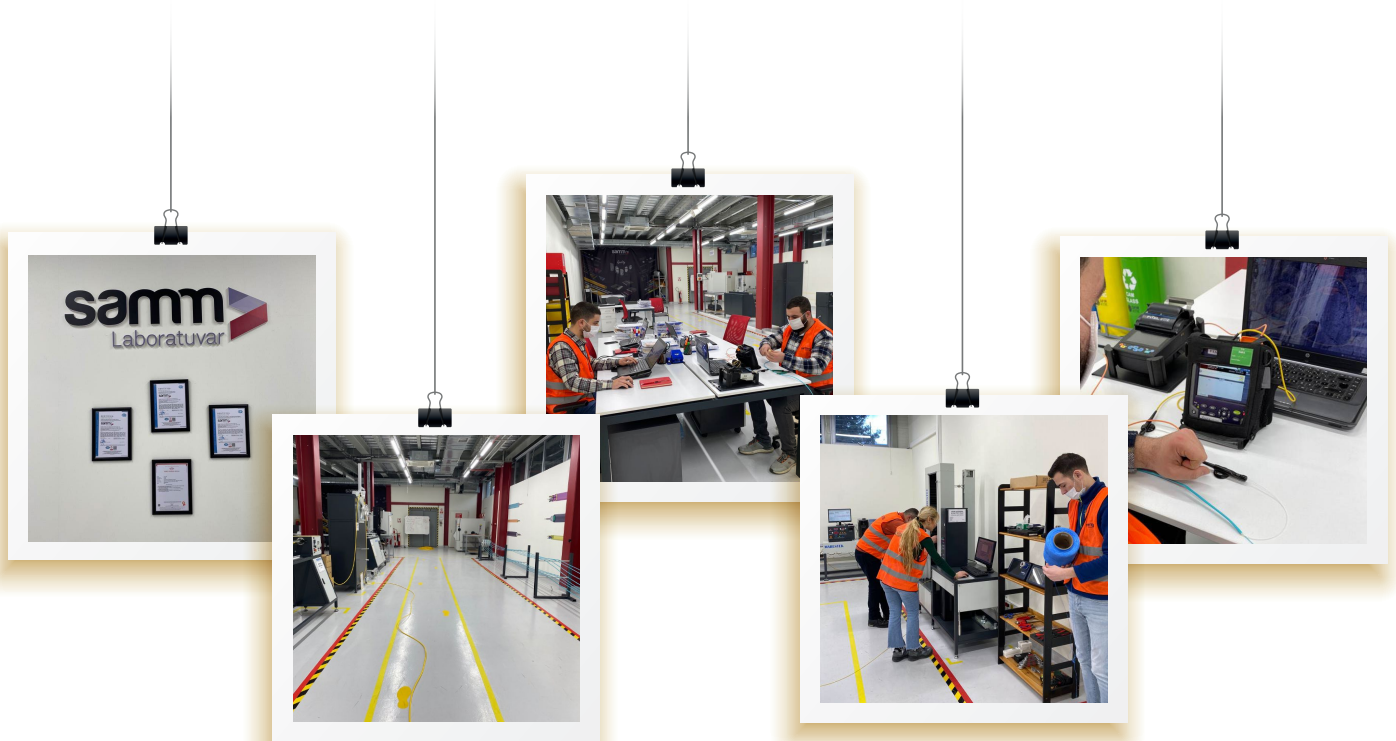
Domestic and National Production

Samm Teknoloji makes its own fiber optic cables, patch cords, and pigtail cables for use with its fiber optic test equipment.



Domestic and National Production Test Software

The test software, used in the fiber optic test laboratory, is created by Samm Teknoloji's R&D department utilizing Raspberry Pi.



Types of Tested Products

Mechanical and environmental testings are carried out in accordance with national and international standards, such as TS, ISO, IEC, TIA, and others, as well as client requirements.

- Fiber Optic Cables
- Terminated Fiber Optic Cables (Patch Cords) and Accessories
- Fiber Optic Splice Enclosures

Samm Teknoloji Fiber Optic Testing Laboratory Testing Methods

Raw Fiber Optic Material Testing Methods

N°	Test Name	Test Method
1	Solid Material Density	TS ISO 2781
2	Moisture Balance	TS EN ISO 62
3	Flash Point	TS EN ISO 2592
4	Cone Penetration (Penetrometer)	ASTM D937
5	Aramid Tensile-Breakout Force	ASTM D885
6	Core Bending Loss	IEC 60793-1-47

Fiber Optic Cable Testing Methods

N°	Test Name	Test Method
1	Optical Attenuation (OTDR)	IEC 60793-2-50, IEC 60793-2-10, IEC 60793-1-40
2	Cable Diameter Measurement	IEC 60811-203
3	Tensile	IEC 60794-1-21-E1
4	Crush	IEC 60794-1-21-E3
5	Impact	IEC 60794-1-21-E4
6	Torsion	IEC 60794-1-21-E7
7	Repeated Bending	IEC 60794-1-21-E6
8	Bending	IEC 60794-1-21-E11
9	Temperature Cycling	IEC 60794-1-22-F1
10	Kink	IEC 60794-1-21-E10
11	Water Penetration	IEC 60794-1-22-F5
12	Sheath and Sheath Marks Abrasion	IEC 60794-1-21-E2
13	Tube Kink	IEC 60794-1-23-G7
14	Single Cable Vertical Burn	IEC 60332-1-2
15	Halogen Acid Gas Measurement	IEC 60754-1, IEC 60754-2
16	Cable Aramid Mass Measurement (g/m)	-
17	PMD (Polarization Mode Dispersion)	IEC 60793-1-48

Fiber Optic Patch Cord Testing Methods

N°	Test Name	Test Method
1	Insertion Loss	IEC 61300-3-4
2	Return Loss	IEC 61300-3-6
3	Straight Pull	IEC 61300-2-6
4	Side Pull	IEC 61300-2-42
5	Flexing	IEC 61300-2-44
6	Temperature Cycling	IEC 60794-1-22-F12

Fiber Optic Splice Enclosure Testing Methods

N°	Test Name	Test Method
1	Visual Inspection	IEC 61300-3-1, IEC 60512-1-1a
2	Water Penetration	IEC 61300-2-32
3	Vibration	IEC 60068-2-6
4	Temperature Range	IEC 61300-2-22, IEC 60068-2-14, IEC 61300-3-3
5	Bending	IEC 61300-2-37
6	Torsion	IEC 61300-2-5
7	Impact	IEC 61300-2-12
8	Axial Tension	IEC 61300-2-4
9	Free Drop	IEC 61300-2-12
10	Static Load	IEC 61300-2-10
11	Corrosion	IEC 61300-2-34
12	Carbon Black	IEC 60811-100, IEC 60811-605
13	UV Resistance	IEC 60068-2-5