

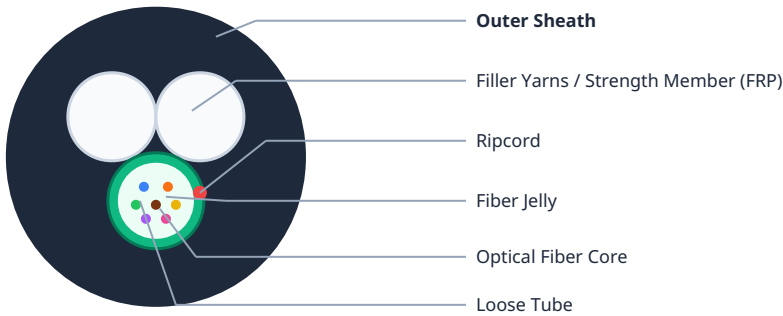
ASU Self-Supporting Optical Fiber Cable

Technical Specification & Product Datasheet

Product Description

The structure of the **ASU optical cable** consists of 250 μm optical fibers encased in a loose tube made of high-modulus material, which is filled with a waterproof compound. The loose tube and two high-strength non-metallic central strength members (FRP) are stranded into a compact cable core. A ripcord and filler yarns are added inside the cable core for easy stripping, and finally, a Polyethylene (PE) outer sheath is extruded to complete the cable structure.

Cable Structure Diagram



Product Features

Compact & Cost-Effective: Small size, lightweight structure, low cost, and high fiber capacity.

Anti-Retraction Design: Specially designed tight cable structure effectively prevents loose tube retraction.

Hydrolysis Resistance & High Strength: High-modulus loose tube material provides excellent hydrolysis resistance and durability.

Dual FRP Strength Members: Two non-metallic FRP rods serve as strength members for outstanding tensile performance.

Critical Fiber Protection: Central tube filled with special jelly compound provides crucial protection for optical fibers.

Versatile Installation: Ideal for short-span aerial self-supporting and duct/pipe installations.

Technical Parameters

Cable Model	Fiber Count	Tube Count	Filler Count	Cable Diameter (mm)	Cable Weight (kg/km)	Allowable Tensile Force (N)		Allowable Crush Resistance (N/100mm)		Bending Radius (mm)	
						Long Term	Short Term	Long Term	Short Term	Static	Dynamic
ASU-1~12Xn	1 - 12	1	2	7.0	48	700	1700	300	1000	15D	30D
ASU-14~24Xn	14 - 24	1	2	8.8	78	800	2000	300	1000	15D	30D

* Note: The above data is for reference only. Storage and Operating Temperature Range: -40°C to +70°C. ("D" represents cable diameter).

Product Standards

Standard Conformance: ASU optical cables comply with the **YD/T 980-2002** standard.