

Indoor Simplex Armored Optical Cable

Model: GJSFJV

Product Description

The GJSFJV optical cable structure is constructed by wrapping a flat stainless steel wire armor over a $\phi 900\mu\text{m}$ or $\phi 600\mu\text{m}$ tight-buffered optical fiber. Multi-strand aramid yarns are uniformly applied over the armored layer as strength members, finished with an extruded flame-retardant PVC or LSZH (Low Smoke Zero Halogen) outer jacket.

Product Applications

- Various standard fiber optic connector products, pigtails, and patch cords.
- Optical connections for optical equipment, instruments, and transceivers.
- Indoor horizontal and vertical riser cabling; LAN networks and multi-information point connections.
- Long-distance, outdoor/field, building wiring, and hybrid optical-electrical duct installations.
- Backbone network tail cables and equipment connections inside buildings.
- Ideal for Fiber to the Desktop (FTTD), under-carpet, and ceiling wiring.
- Small minimum bending radius suitable for high-density cabling, compact spaces, and tight bends.

Product Features

- **Stainless Steel Armor:** Wrapped flat stainless steel wire armor enhances crush and rodent resistance.
- **Aramid Strength Members:** High-strength aramid yarns combined with high-performance jacket material.
- **Flexible & Lightweight:** Small bending radius, lightweight, soft, flexible, and convenient for splicing.
- **Excellent Reliability:** Delivers superior mechanical and environmental performance.
- **Flame-Retardant Jacket:** Flame-retardant outer sheath provides robust safety protection.
- **Wide Operating Temp:** Operating & storage temperature ranging from -20°C to $+60^{\circ}\text{C}$.

Optical Characteristics

Parameter		G.652	G.655	50/125 μm	62.5/125 μm
Attenuation (+20°C)	@ 850nm	-	-	$\leq 3.0 \text{ dB/km}$	$\leq 3.0 \text{ dB/km}$
	@ 1300nm	-	-	$\leq 1.0 \text{ dB/km}$	$\leq 1.0 \text{ dB/km}$
	@ 1310nm	$\leq 0.36 \text{ dB/km}$	-	-	-
	@ 1550nm	$\leq 0.22 \text{ dB/km}$	$\leq 0.23 \text{ dB/km}$	-	-
Bandwidth (Class A)	@ 850nm	-	-	$\geq 500 \text{ MHz}\cdot\text{km}$	$\geq 500 \text{ MHz}\cdot\text{km}$
	@ 1300nm	-	-	$\geq 1000 \text{ MHz}\cdot\text{km}$	$\geq 600 \text{ MHz}\cdot\text{km}$
Numerical Aperture (NA)		-	-	$0.200 \pm 0.015 \text{ NA}$	$0.275 \pm 0.015 \text{ NA}$
Cable Cut-off Wavelength		$\leq 1260 \text{ nm}$	$\leq 1480 \text{ nm}$	-	-

Mechanical & Structural Parameters

Cable Model	Fiber Count	Tight Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)
					Long Term	Short Term	Long Term	Short Term	Static / Dynamic
GJSFJV	1	0.6	2.0	11	300	750	200	1000	20D / 10D
GJSFJV	1	0.6	2.2	12	300	750	200	1000	20D / 10D
GJSFJV	1	0.6	2.4	13	300	750	200	1000	20D / 10D
GJSFJV	1	0.9	3.0	15	300	750	200	1000	20D / 10D

* Note: Operating & Storage Temperature: -20°C to +60°C. (D = Cable Outer Diameter)

Product Standards

- Complies with standards: YD/T 2488-2013, ICEA-596, GR-409, IEC 60794, etc.
- Meets UL certification requirements for OFNR (Riser) and OFNP (Plenum) ratings.