49827

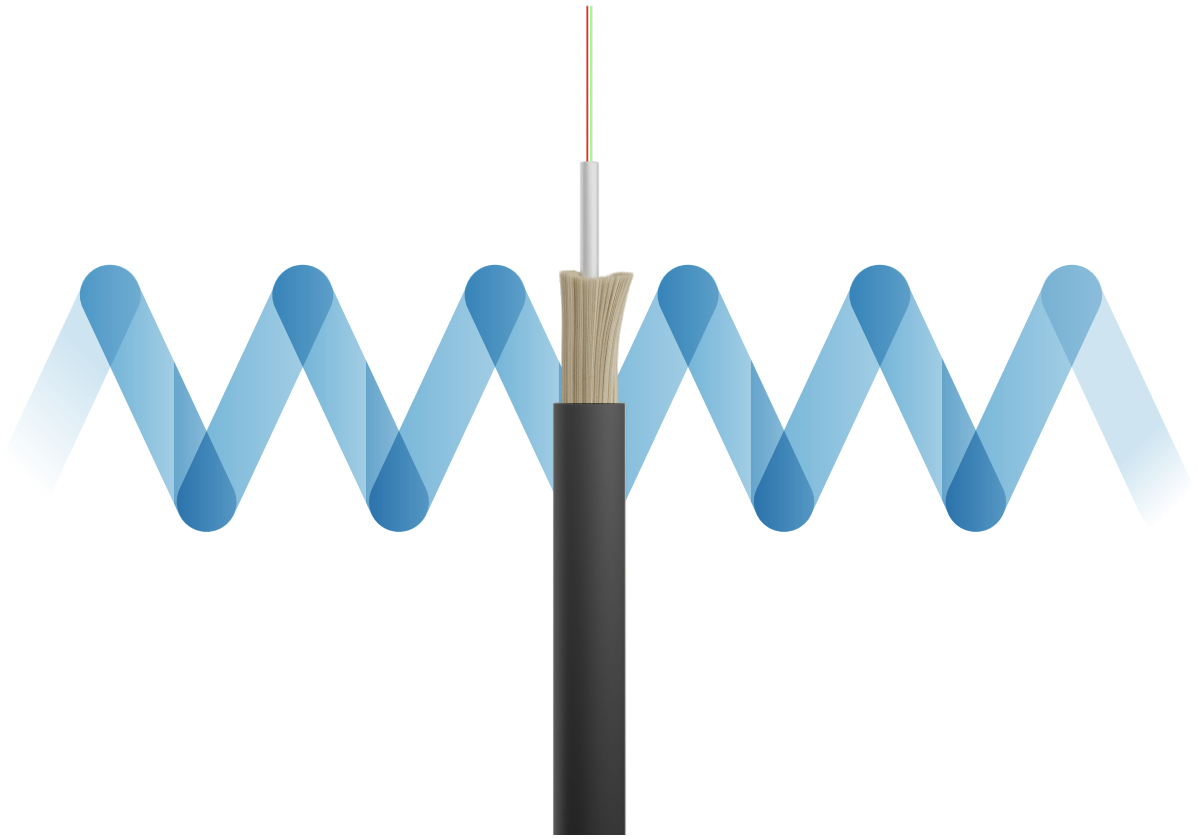
Dielectric fiber optic cable, 2F SM 900 µm G-657A2, FR-LSZH-UV, Fca for outdoor use

CPR EN 50575

DESCRIPTION

The 2-fiber 9/125 µm dielectric fiber optic cable with tight-buffered design and Fca FR-LSZH-UV rating is a professional solution designed for telecommunications installations and high-speed networks that require stable performance, safety, and immunity to electromagnetic interference.

This cable provides excellent long-distance transmission capability while maintaining an enhanced bend radius that allows installation in confined spaces, narrow trays, complex conduits, or environments where tight curves are required without compromising attenuation.



APPLICATIONS

OPENETICS /ADALTRA

- FTTH / FTTx networks.
- Building backbone and distribution.
- Rack installations and technical rooms.
- Indoor or vertical conduits.
- Surveillance and control systems.
- Data center and industrial applications.

Updated on: 17/11/2025

ADVANTAGES

- Fully dielectric.
- High-quality singlemode performance (9/125 µm).
- Ideal for long distances and high-speed transmission with low attenuation.
- Reduced bend radius.
- Greater installation flexibility.
- Minimizes bend losses even in demanding routes.
- Suitable for point-to-point networks.
- Easy to strip and simple to handle during connectorization.
- Covers long distances without splicing, speeding deployment and reducing failure points.
- Robust jacket that protects against abrasion, moderate humidity, and handling during installation.
- High durability and resistance.

STANDARDS

IEC 60793-1	UNE-EN 50266 (IEC 60332/1-2)
IEC 60793-2	UNE-EN 50267 (IEC 60754-1-2)
IEC 60794-2	CPR Euroclass Fca
IEC60332-1-2	
IEC60754-1	
IEC60754-2	

TECHNICAL SPECIFICATIONS

Number of fibers	2
Fiber type	G.657.A2
Mode field diameter @ 1310 nm	8,8±0,4 µm
Mode field diameter @ 1550 nm	9,8±0,5 µm
Cladding diameter	124,8±0,7 µm
Cladding non-circularity	≤0,7 %
Core–cladding concentricity error	≤0,5 µm
Cut-off wavelength	≤1260 nm
Attenuation @ 1310 nm	≤0,4 dB/Km
Attenuation @ 1550 nm	≤0,3 dB/Km

Updated on: 17/11/2025

TECHNICAL SPECIFICATIONS

Macrobending loss @ 1 turn x 7.5 mm radius @ 1550 nm	≤0,5 dB
Macrobending loss @ 1 turn x 7.5 mm radius @ 1625 nm	≤1 dB
Coating diameter	245±5 µm
Coating non-circularity	≤6 %
Cladding–coating concentricity error	≤12 µm
Buffer diameter	850±50 µm
Buffer material	LSZH
Buffer colors	green and red
Strength yarn	Aramid
Outer jacket diameter	4,0±0,2 mm
Outer jacket thickness	0,8 mm
Outer jacket type	FR-LSZH-UV
CPR level	Fca
Outer jacket color	black
Tension (long term)	500 N
Tension (short term)	1000 N
Crush resistance (long term)	300
Crush resistance (short term)	1000
Minimum bending radius (dynamic)	10D mm
Minimum bending radius (static)	5D mm
Installation temperature	-20~60 °C
Operating temperature	-40~70 °C
Storage temperature	-40~70 °C

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ORDER INFORMATION

P/N	DESCRIPTION	USE	CPR	JACKET	FIBER Ø	NO. FIBERS	PACKAGING
49827	Dielectric fiber optic cable, 2 SM fibers, 900µm	outdoor	Fca	FR-LSZH-UV	9/125 µm	2 fibers tight-buffered	500 m

Updated on: 17/11/2025