

49823

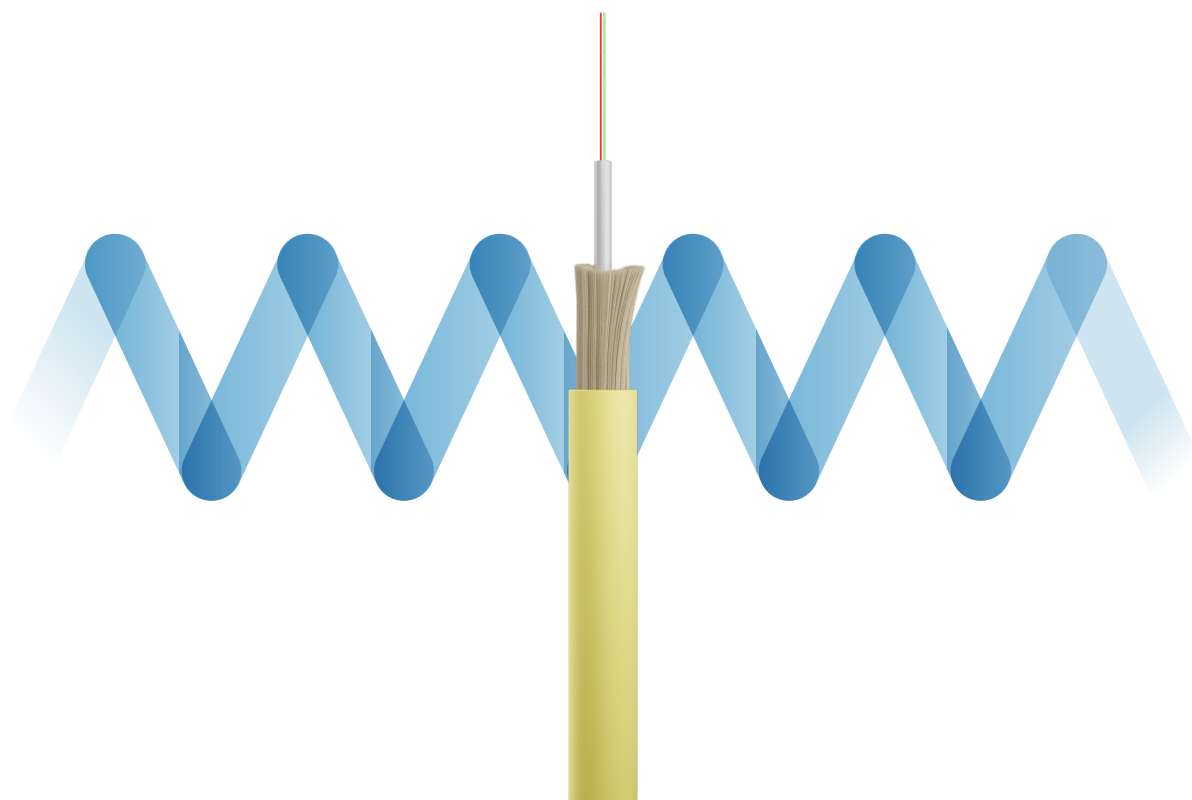
**2-fiber dielectric optical cable [9/125 μm]
with tight buffer, Dca, s2, d2, a1, G-657A2
for indoor use**



DESCRIPTION

The 9/125 μm 2-fiber dielectric optical cable with tight buffer and Dca, s2, d2, a1 classification is a professional solution designed for telecommunications installations and high-speed networks that require stable performance, enhanced safety and complete immunity to electromagnetic interference.

This cable provides excellent long-distance transmission capability while maintaining an improved bending radius, allowing installation in confined spaces, narrow cable trays, complex conduits or environments where tight bends are required without compromising attenuation.



APPLICATIONS

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

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ADVANTAGES

- Fully dielectric.
- High-quality single-mode performance (9/125 μm).
- Ideal for long distances and high-speed transmission with low attenuation.
- Reduced bending radius.
- Greater installation flexibility.
- Minimizes bending 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 up 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
IEC60332-1-2	Fire reaction Dca, s2, d2, a1
IEC60754-1	
IEC60754-2	

TECHNICAL SPECIFICATIONS

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

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 color	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
CPR level	Dca
Outer jacket color	yellow
Tension (long term)	250 N
Tension (short term)	500 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

ORDER INFORMATION

P/N	DESCRIPTION	APPLICATION	CPR	JACKET	Ø FIBER	NO. FIBERS	PACKAGING
49823	Dielectric optical fiber cable [9/125 µm] with 2 tight-buffer fibers, G-657A2	indoor	Dca	LSZH	9/125 µm	2 fibers tight buffer	500 m