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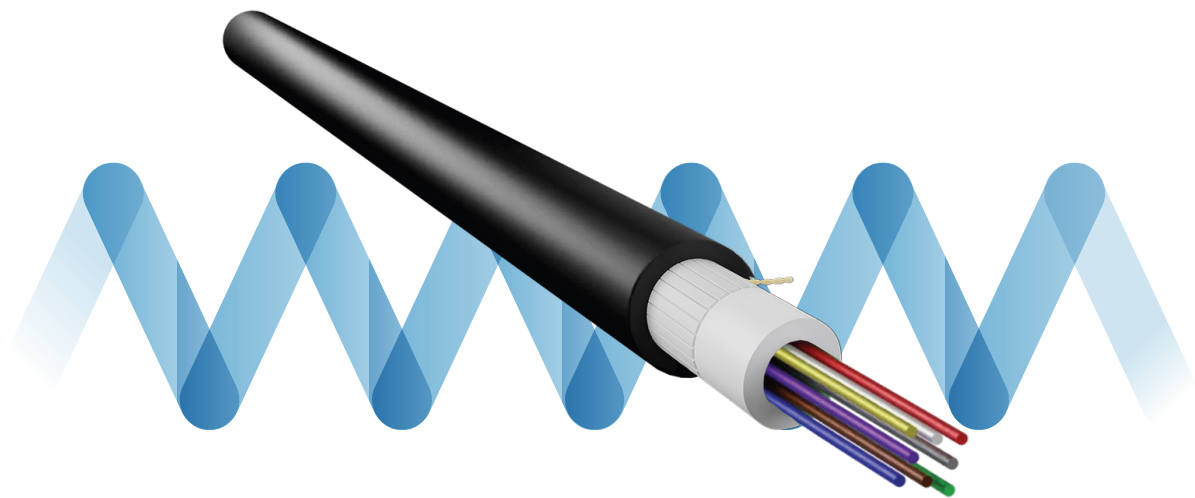
OS2

B2_{ca}

OS2 LSZH B2ca dielectric fiber optic cable, G-652D

DESCRIPTION

High-performance fiber optic cable for video, voice, and data transmission. The manufacture of these cables is subject to strict safety regulations, complying with the most demanding international certification standards with a new Slim structure.



APPLICATIONS

- Intercommunication between racks, thanks to its new reduced diameter Slim format.
- Connection between panels and voice and data points.
- Short-distance distribution to terminals.
- General indoor and outdoor use in local area networks (LAN) and video.
- FTTx cabling

OPENETICS
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APPLICATIONS

- Compact, lightweight, highly flexible, robust, and durable.
- Easy to peel (gel-free).
- Fully dielectric.
- Reduced diameter.
- Direct connection.
- Savings on installation costs.
- Halogen-free, low smoke emission, and flame retardant.
- UV resistant.
- Protected from rodents.
- Compatible with the complete range of fiber optic components.

REGULATIONS

Classification of cables according to the Construction Products Regulation (CPR)	EN 50575
Mechanical tests for fiber optic cables – tensile test	IEC 60794-1-2 / F1
Mechanical tests for fiber optic cables – impact test	IEC 60794-1-2 / F5
Flame propagation test on individual cables	EN 50265-2-1 (IEC 60332-1-2/-3)
Fire propagation test on bundled cables	EN 50399
Specifications for single-mode optical fibers	UNE-EN 60793-2-50
Flame propagation test on cable bundles	UNE-EN 50266 (IEC 60332-1-2-3-24)
Corrosive gas emission test during combustion	UNE-EN 50267 (IEC 60754-2)
Smoke density and opacity test during combustion	UNE-EN 50268 (IEC 61034)
Fire reaction classification of cables	B2ca

TECHNICAL SPECIFICATIONS

Fibers:	8, 12, 16 and 24
Center tube diameter:	8-12 fibers: 3 mm / 16-24 fibers: 3.5 mm
Traction elements:	WB reinforced glass fibers (water blockers)
Armor:	Fiberglass
Outer cover:	LSZH / UV thermoplastic
Color:	Polyolefin - Black
Weight (kg):	8 fibers: 52 / 12, 16 and 24 fibers: 64
Outer diameter:	8 fibers: 7 mm / 12, 16 and 24 fibers: 7.5 mm
Maximum operating load / Inst (N):	800 N / 1200 N
Compressive strength (N/10 mm):	1000 (10 min)
Temperature range:	Operating temperature: -30°C to +60°C / Installation temperature: -20°C to 60°C
Minimum curvature radius:	15 x outer diameter
Maximum coil length (m):	8 fibers: 4000 / 12, 16 and 24 fibers: 2000
Fiber color:	Red, green, yellow, blue, white, violet, orange, black, gray, brown, pink, turquoise
Color of fibers with 1 ring:	Red, green, yellow, blue, white, violet, orange, black, gray, brown, pink, turquoise

PHYSICAL SPECIFICATIONS

Core size:	9 microns
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GEOMETRIC SPECIFICATIONS

Coating diameter:	125 ± 0.70 µm
Coating diameter (uncolored):	242 ± 7 µm
Core/coating concentricity error:	≤ 0.6 µm
Concentricity error of the coating/lining:	≤ 12 µm
Validity of the coating:	≤1.0%

OPTICAL SPECIFICATIONS

Attenuation:	1550 nm \leq 0.21 dB/km 1625 nm \leq 0.23 dB/km 1525–1575 nm \leq 0.03 dB/km
Zero dispersion point:	\leq 0.092 ps/(nm ² ·km)
Zero dispersion slope:	1300–1324 nm
Chromatic dispersion at 1550 nm	\leq 18.6 ps/(nm ² ·km)
Chromatic dispersion at 1625 nm	\leq 23.7 ps/(nm ² ·km)
PMD single fiber	\leq 0.20 ps/ $\sqrt{\text{km}}$
Cable cutoff wavelength:	\leq 1260 nm

MECHANICAL SPECIFICATIONS

Stress test:	0.69 GPa
Twisting:	5 turns of 180° on a 1 m sample, in both directions.
Impact resistance:	4.4 J; 3 \times 2 times \leq 0.05 dB (1550 and 1625 nm)
Minimum radius of curvature:	20 \times D \leq 0.10 dB (1550 and 1625 nm)
Peeling force [F] (maximum value):	1.3 N \leq F \leq 8.9 N
Fatigue [ns]:	\geq 20

ENVIRONMENTAL SPECIFICATIONS

Attenuation induced by:	1550 and 1625 nm
Between -60°C and +85°C temperature cycle:	\leq 0.05 dB/km
+85°C, 85% RH, Humid heat:	\leq 0.05 dB/km
+85°C, Dry heat:	\leq 0.05 dB/km
+23°C Immersion in water:	\leq 0.05 dB/km

COMMERCIAL INFORMATION

P/N	DESCRIPTION	USE	COVER	Ø FIBER	NO. OF FIBERS	LENGTH (M)
05212	OS2 dielectric fiber optic cable, B2Ca, G-652D	interior / outside	LSZH	9/125 µm	8	1
05213	OS2 dielectric fiber optic cable, B2Ca, G-652D	interior / outside	LSZH	9/125 µm	12	1
05214	OS2 dielectric fiber optic cable, B2Ca, G-652D	interior / outside	LSZH	9/125 µm	16	1
05215	OS2 dielectric fiber optic cable, B2Ca, G-652D	interior / outside	LSZH	9/125 µm	24	1