FIBER OPTIC CABLE · GJXH

GJXH

Bow-Type FTTH Drop Cable

G.652D / G.657A · 1–2 cores · indoor and aerial drop

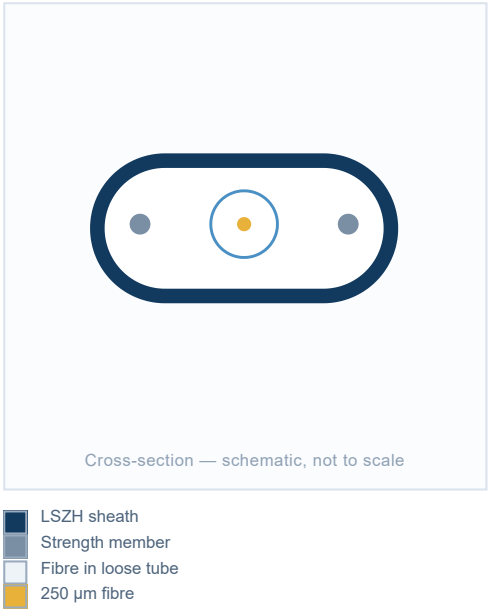
PRODUCT DESCRIPTION

GJXH is the standard bow-type drop cable for FTTH. A single fibre (or a 2-fibre pair) sits in the centre of a figure-eight cross-section, with two parallel strength members embedded in the wings — steel wire for GJXH, FRP for the all-dielectric GJXFH variant. The flat profile staples neatly to walls and can be stripped without tools, which is what makes it the default choice for the last hundred metres.

KEY FEATURES

- Figure-eight profile — staples flat to masonry, bends tight around corners
- Parallel strength members protect the fibre from clamping and pulling loads
- G.657A bend-insensitive fibre for tight indoor radii
- Jacket strippable by hand, no special tool required
- Steel wire (GJXH) or all-dielectric FRP (GJXFH) versions available

Other fibre types, core counts and sheath compounds are available on request — see the ordering information on page 2.



Cross-section — schematic, not to scale

LSZH sheath
Strength member
Fibre in loose tube
250 µm fibre

GENERAL SPECIFICATIONS

CABLE TYPE	**GJXH**
APPLICATION	**FTTH drop · Indoor wall run · Short aerial span**
STANDARDS	**YD/T 1258.4 · IEC 60794-1**
TEMPERATURE	**-20 °C to +60 °C**
SHEATH OPTIONS	**PVC · LSZH**

CABLE CONSTRUCTION

Fibre	1 or 2 × 250 µm, G.652D or G.657A
Strength members	Two parallel members in the sheath wings
Cross-section	Bow-type (figure-eight flat), 2.0 × 3.0 mm
Outer sheath	LSZH or PVC, flame retardant

Options: PVC or LSZH jacket · 1, 2 or 4 fibres · pre-terminated with SC/LC connectors · custom length and connector polish.

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STRUCTURE AND DIMENSIONS

Cable model	Fibre count	Cable size (mm)	Nominal weight (kg/km)	Tensile load L / S (N)	Crush resistance L / S (N/100 mm)	Bend radius dynamic / static (mm)
GJXH-1Xn	1	2.0 ± 0.1 × 3.0 ± 0.1	8	40 / 80	500 / 1000	40 / 20
GJXH-2Xn	2	2.0 ± 0.1 × 3.0 ± 0.1	8.5	40 / 80	500 / 1000	40 / 20
GJXH-1Xn (3.8 mm)	1	2.0 ± 0.1 × 3.8 ± 0.1	9	40 / 80	500 / 1000	40 / 20
GJXH-4Xn	4	2.0 ± 0.2 × 4.0 ± 0.2	10	40 / 80	500 / 1000	40 / 20

FIBRE COUNT RANGE
1–2 / 1–4
cores

CABLE SIZE
2.0 × 3.0 / 2.0 × 5.0
mm

BEND RADIUS
40 / 20
mm, dynamic / static

OPTICAL CHARACTERISTICS

Fibre type	Attenuation 1310 nm (dB/km) typ. / max	Attenuation 1550 nm (dB/km) typ. / max	Cut-off λcc (nm)	Remark
G.652D	0.36 / 0.50	0.22 / 0.40	≤ 1260	Low water peak, full band 1260–1625 nm
G.655	0.40 / 0.50	0.23 / 0.40	≤ 1450	Non-zero dispersion shifted, for DWDM backbone
G.657A1/A2	0.36 / 0.50	0.22 / 0.40	≤ 1260	Bend insensitive, min. bend radius 10 mm

Attenuation measured at +20 °C on cabled fibre, before splicing. Multimode fibre (OM1–OM4) available on request.

QUALITY ASSURANCE

- 100 % attenuation and length test on every fibre before packing
- Inspection certificate and test report issued with every drum
- Third-party inspection (SGS, TÜV, BV) can be arranged on request
- Pre-shipment sample and drum marking approved by the customer

TYPE TESTS

Test	Method	Acceptance
Tensile strength	IEC 60794-1-21 E1	Rated load applied, no fibre strain, Δα ≤ 0.05 dB
Crush	IEC 60794-1-21 E3	Rated load applied, Δα ≤ 0.05 dB after recovery
Impact	IEC 60794-1-21 E4	10 impacts, 4.5 J, R300 mm, Δα ≤ 0.05 dB
Temperature cycling	IEC 60794-1-22 F1	−40 °C to +70 °C, 2 cycles, Δα ≤ 0.05 dB/km
Water penetration	IEC 60794-1-22 F5B	1 m head, 24 h, no water at the far end

ORDERING INFORMATION

Order code: **GJXH-[fibre count]Xn-[fibre type]-[jacket].** Example: GJXH-2Xn-G652D-LSZH. State the fibre type, jacket compound and drum length. Standard drum length 1 km or 2 km.

Nominal values, subject to normal manufacturing tolerances.

Core counts and fibre types outside the table are built to order — weight, tensile and bending data confirmed on the order drawing.

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