FIBER OPTIC CABLE · GJFJV

GJFJV

Indoor Tight-Buffered Distribution Fiber Optic Cable

OS2 / OM3 / OM4 · 2–12 cores · riser and backbone

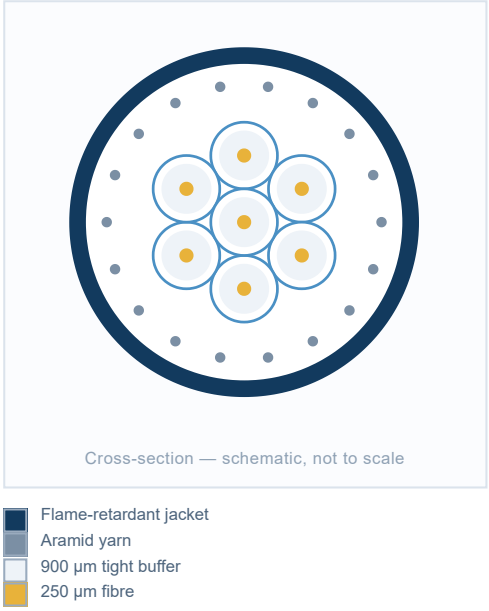
PRODUCT DESCRIPTION

GJFJV is the tight-buffered indoor cable used where fibres are terminated directly instead of spliced. Each fibre carries its own 900 µm buffer, so it can be stripped and connectorised on site without a fan-out kit or splice tray. A layer of aramid yarn over the buffered fibres takes the pulling load, and a flame-retardant PVC or LSZH jacket completes the cable.

KEY FEATURES

- 900 µm tight buffer — terminate straight into LC/SC, no fan-out kit, no splice
- Aramid yarn strength layer: 200 N long term, 600 N short term
- Flame-retardant PVC standard, LSZH to IEC 60332-1 on request
- 3.4 mm at 2 cores — high fill density in trays and ducts
- OS2, OM3 and OM4 fibre in the same construction

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

Flame-retardant jacket
Aramid yarn
900 µm tight buffer
250 µm fibre

GENERAL SPECIFICATIONS

CABLE TYPE	**GJFJV**
APPLICATION	**Data centre backbone · Riser · Direct connector termination**
STANDARDS	**YD/T 1258.4 · IEC 60794-2-20 · IEC 60332-1**
TEMPERATURE	**-20 °C to +60 °C**
SHEATH OPTIONS	**PVC · LSZH**

CABLE CONSTRUCTION

Fibre	2–12 × 900 µm tight-buffered, OS2 / OM3 / OM4
Strength member	Aramid yarn over the buffered fibres
Jacket	Flame-retardant PVC standard, LSZH to IEC 60332-1 on request
Marking	Metre marks and customer print on request

Options: LSZH jacket · 600 µm buffered fibre instead of 900 µm · 12-colour fibre code · ripcord · pre-terminated with LC/SC connectors.

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STRUCTURE AND DIMENSIONS

Cable model	Fibre count	Outer diameter (mm)	Nominal weight (kg/km)
GJFJV-2Xn	2	3.4	15
GJFJV-4Xn	4	4.0	22
GJFJV-6Xn	6	4.0	23
GJFJV-8Xn	8	5.0	27
GJFJV-10Xn	10	5.5	30
GJFJV-12Xn	12	6.0	35

TENSILE LOAD L / S	CRUSH RESISTANCE L / S	BEND RADIUS D / S
200 / 600	**200 / 1000**	**20D / 10D**
N	N/100 mm	× cable OD

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: **GJFJV-[cores]Xn-[fibre type]-[sheath].** Example: GJFJV-12Xn-G652D-PE. State the fibre type, sheath compound, drum length and any sheath marking. Standard drum length 2 km or 4 km; other lengths on request.

> 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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