FIBER OPTIC CABLE · GYXTZW

GYXTZW

Central Loose Tube Flame-Retardant Armored Cable

G.652D / G.655 · LSZH sheath · 2–24 cores

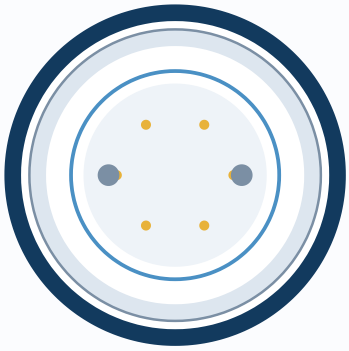
PRODUCT DESCRIPTION

GYXTZW is the flame-retardant central tube cable: one gel-filled loose tube, dual steel wires, PSP armour and an LSZH outer sheath. It is used where a single cable must run from an outdoor duct into a building without a transition joint — the LSZH sheath meets indoor fire requirements while the armour handles the outdoor section.

KEY FEATURES

- One cable for the indoor/outdoor transition — no joint at the building entry
- LSZH sheath: low smoke, zero halogen, flame retardant to IEC 60332-1
- Dual steel wire strength members: 600/1500 N standard, 1000/3000 N reinforced
- Central tube design keeps the diameter small for tight conduit
- Crush resistant PSP armour for duct and tray installation

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

- Outer sheath
- PSP armour
- Steel strength wire
- Central loose tube
- 250 µm fibre

GENERAL SPECIFICATIONS

CABLE TYPE	**GYXTZW**
APPLICATION	**Indoor / outdoor transition · Tunnels · Ducts**
STANDARDS	**YD/T 769 · IEC 60332-1 · IEC 60754**
TEMPERATURE	**-40 °C to +70 °C**
SHEATH OPTIONS	**PE · LSZH**

CABLE CONSTRUCTION

Central loose tube	PBT, gel-filled, all fibres in one tube
Armour	Copolymer-coated steel tape (PSP)
Strength members	Two parallel steel wires embedded in the sheath
Water blocking	Thixotropic jelly in the tube
Outer sheath	LSZH compound, flame retardant to IEC 60332-1

Options: LSZH sheath · dry core without gel · 12-fibre colour code · ripcord · customer sheath printing.

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STRUCTURE AND DIMENSIONS

Cable model	Fibre count	Nominal weight (kg/km)	Version	Tensile load L / S (N)	Crush resistance L / S (N/100 mm)	Bend radius S / D
GYXTZW-2~12Xn	2~12	152	Standard	600/1500	300/1000	10D/20D
GYXTZW-14~24Xn	14~24	192	Standard	600/1500	300/1000	10D/20D
GYXTZW-2~12Xn	2~12	172	Reinforced	1000/3000	300/1000	10D/20D
GYXTZW-14~24Xn	14~24	215	Reinforced	1000/3000	300/1000	10D/20D

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: **GYXTZW-[cores]Xn-[fibre type]-[sheath].** Example: GYXTZW-48Xn-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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