FIBER OPTIC CABLE · GYTZS

GYTZS

Stranded Loose Tube Steel Tape Armored Flame-Retardant Cable

G.652D / G.655 · LSZH sheath · steel tape armor · 2–288 cores

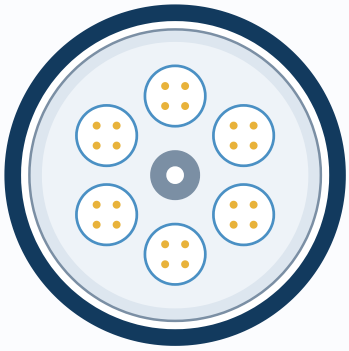
PRODUCT DESCRIPTION

GYTZS pairs a PSP steel tape armour with a low-smoke zero-halogen outer sheath. It is specified where a cable needs both mechanical protection and fire performance — metro tunnels, industrial plants, utility galleries and cable shafts inside buildings. Core counts run to 288 in a single sheath.

KEY FEATURES

- Steel tape armour plus LSZH sheath: crush protection and fire performance together
- No halogen acid gas, low smoke density — safe for confined and occupied spaces
- Crush resistance 300/1000 N per 100 mm, tensile 600/1500 N
- Same tube and fibre design as GYTS for consistent splicing practice
- Available with anti-termite and anti-rodent additives on request

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
- Armour / moisture barrier
- Gel-filled loose tube
- Central strength member
- 250 µm fibre

GENERAL SPECIFICATIONS

CABLE TYPE	**GYTZS**
APPLICATION	**Tunnels · Metro · Industrial plants**
STANDARDS	**YD/T 901 · IEC 60332-1 · IEC 60754**
TEMPERATURE	**-40 °C to +70 °C**
SHEATH OPTIONS	**PE · LSZH**

CABLE CONSTRUCTION

Central strength member	Single steel wire, PE coated
Loose tube	PBT, gel-filled, max. 12 fibres per tube
Core assembly	Tubes and fillers stranded around the central member
Armour	Double-sided copolymer-coated steel tape (PSP)
Water blocking	Thixotropic jelly in tubes, flooding compound in the core
Outer sheath	LSZH compound, flame retardant to IEC 60332-1

Options: LSZH or flame-retardant sheath · anti-termite and anti-rodent additives · non-metallic strength member · ripcord · customer sheath printing · dry core on request.

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STRUCTURE AND DIMENSIONS

Cable model	Fibre count	Loose tubes	Fillers	Nominal weight (kg/km)
GYTZS-2~6Xn	2~6	1	4	118
GYTZS-8~12Xn	8~12	2	3	118
GYTZS-14~18Xn	14~18	3	2	118
GYTZS-20~24Xn	20~24	4	1	118
GYTZS-26~30Xn	26~30	5	0	118
GYTZS-32~36Xn	32~36	6	0	131
GYTZS-38~48Xn	38~48	4	1	139
GYTZS-50~60Xn	50~60	5	0	139
GYTZS-62~72Xn	62~72	6	0	170
GYTZS-74~84Xn	74~84	7	1	200
GYTZS-86~96Xn	86~96	8	0	200
GYTZS-98~108Xn	98~108	9	1	230
GYTZS-110~120Xn	110~120	10	0	230
GYTZS-122~132Xn	122~132	11	1	268
GYTZS-134~144Xn	134~144	12	0	268
GYTZS-146~216Xn	146~216	13~18	5~0	268
GYTZS-288Xn	288	24	0	360

TENSILE LOAD L / S	CRUSH RESISTANCE L / S	BEND RADIUS S / D
600 / 1500	**300 / 1000**	**10D / 20D**
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.

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