FIBER OPTIC CABLE · GYTZA

GYTZA

Stranded Loose Tube Non-Armored Flame-Retardant Cable

G.652D / G.655 · LSZH sheath · 2–216 cores

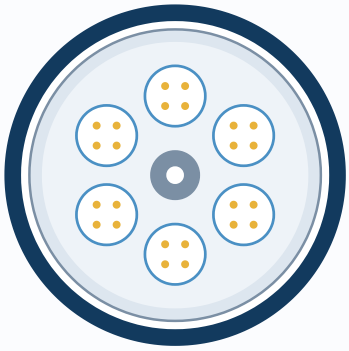
PRODUCT DESCRIPTION

GYTZA is the flame-retardant version of the standard stranded loose tube cable. The core and mechanics are unchanged; the sheath is a low-smoke zero-halogen compound that does not propagate flame and releases no corrosive gas when exposed to fire. It is specified for tunnels, metro sections, substations and cable routes that pass through occupied buildings.

KEY FEATURES

- LSZH sheath — low smoke, zero halogen, no corrosive gas in a fire
- Flame propagation tested to IEC 60332-1 / GB/T 18380
- Same core design as GYTA — splicing and tooling are identical
- Suitable for tunnels, metro, substations and indoor risers
- Custom sheath colour and printing 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

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

GENERAL SPECIFICATIONS

CABLE TYPE	**GYTZA**
APPLICATION	**Duct · Aerial · Tunnels and stations**
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
Water blocking	Thixotropic jelly in tubes, flooding compound in the core
Moisture barrier	Copolymer-coated aluminium tape
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)
GYTZA-2~6Xn	2~6	1	4	101
GYTZA-8~12Xn	8~12	2	3	101
GYTZA-14~18Xn	14~18	3	2	101
GYTZA-20~24Xn	20~24	4	1	101
GYTZA-26~30Xn	26~30	5	0	101
GYTZA-32~36Xn	32~36	6	0	111
GYTZA-38~48Xn	38~48	4	1	117
GYTZA-50~60Xn	50~60	5	0	117
GYTZA-62~72Xn	62~72	6	0	144
GYTZA-74~84Xn	74~84	7	1	171
GYTZA-86~96Xn	86~96	8	0	171
GYTZA-98~108Xn	98~108	9	1	198
GYTZA-110~120Xn	110~120	10	0	198
GYTZA-122~132Xn	122~132	11	1	229
GYTZA-134~144Xn	134~144	12	0	229
GYTZA-146~216Xn	146~216	13~18	5~0	229

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