FIBER OPTIC CABLE · GYTA

GYTA

Stranded Loose Tube Non-Armored Fiber Optic Cable

G.652D / G.655 · 2–288 cores · Duct and aerial

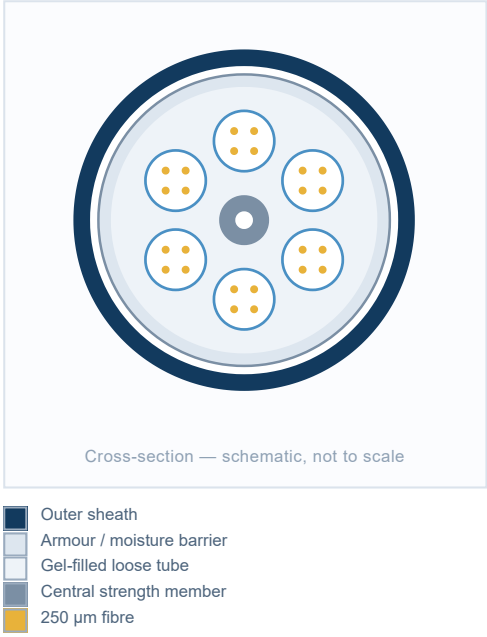
PRODUCT DESCRIPTION

GYTA is a stranded loose tube cable built around a single steel wire central strength member. Up to 12 fibres are housed in each high-modulus loose tube filled with a thixotropic compound; tubes and fillers are stranded around the central member to form a compact, circular core. The interstices are flooded with water-blocking gel, a copolymer-coated aluminium tape is applied longitudinally for moisture and EMI protection, and a UV-stabilised PE sheath completes the cable.

KEY FEATURES

- Aluminium tape laminate blocks radial moisture ingress and reduces electromagnetic interference
- Gel-filled loose tubes with controlled excess fibre length keep attenuation stable under load
- Compact stranded core with fillers sized per tube count — round profile, no ovality in ducts
- Excellent crush and bending performance from the corrugated armour laminate
- Sheath printed with customer name, model, core count and metre marks 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	**GYTA**
APPLICATION	**Duct · Aerial · Cable tray**
STANDARDS	**YD/T 901 · IEC 60794-1**
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, applied longitudinally
Outer sheath	UV-stabilised MDPE, black

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)
GYTA-2~6Xn	2~6	1	4	76
GYTA-8~12Xn	8~12	2	3	76
GYTA-14~18Xn	14~18	3	2	76
GYTA-20~24Xn	20~24	4	1	76
GYTA-26~30Xn	26~30	5	0	76
GYTA-32~36Xn	32~36	6	0	85
GYTA-38~48Xn	38~48	4	1	90
GYTA-50~60Xn	50~60	5	0	90
GYTA-62~72Xn	62~72	6	0	113
GYTA-74~84Xn	74~84	7	1	136
GYTA-86~96Xn	86~96	8	0	136
GYTA-98~108Xn	98~108	9	1	163
GYTA-110~120Xn	110~120	10	0	163
GYTA-122~132Xn	122~132	11	1	190
GYTA-134~144Xn	134~144	12	0	190
GYTA-146~216Xn	146~216	13~18	5~0	190
GYTA-288Xn	288	24	0	239

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