

Optical Fibre Cable

Part No: GLT-AZB Series

Description

Up to 12 fibres in jelly filled loose tubes, stranded around a central strength member with dry blocking elements and additional glass yarn strength members, overall taped, PE inner jacket, nylon termite barrier, helical FRP rod rodent barrier, PE outer jacketed, overall low friction nylon jacketed optical fibre cable for use in ducts or direct burial applications. .

Applicable Standards AS/CA S-008, IEC 60794-1-21, AS 1049, AS/NZS 11801, MRTS234

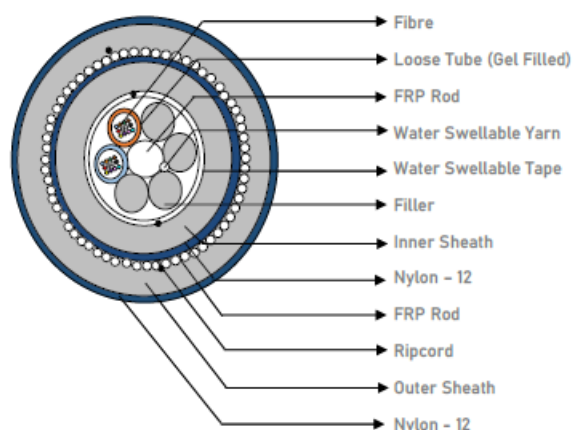
For use as trunk or spur lines in telecommunications systems.

Suitable Applications

The low friction outer jacket aids installation and the rodent barrier has been qualified for rodent resistance as per MRTS234 for communications cables.

Images

06/12/24F Multitube GRP Armoured Optical Fibre Cable



96/144F Multitube GRP Armoured Optical Fibre Cable

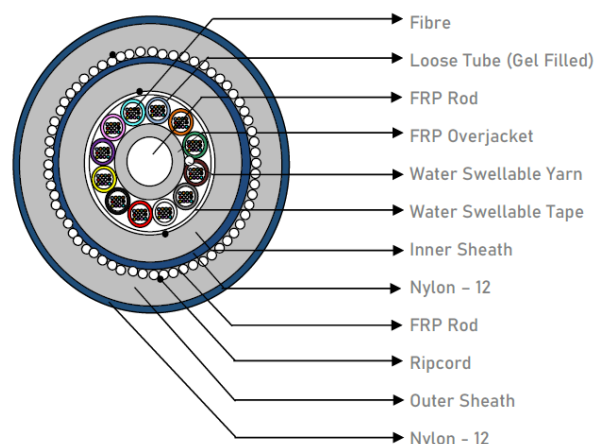


Image for illustration purposes only.
Actual construction will vary depending on the total fibre count



Construction

Tube Details	Material	PBT											
	OD	2 mm											
	Water blocking	Jelly											
Fibre & Tube colours (EIA/TIA 598)	1	2	3	4	5	6	7	8	9	10	11	12	
	BL	OR	GN	BR	GY	WH	RD	BK	YW	VT	PK	AQ	

GLT-AZB Series 230720

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Construction		
Stranding	Configuration	Multiple tubes and fillers around a central strength member
	Nos of tubes and fillers	Refer to Ordering Information
	Peripheral strength member	Glass yarns wrapped around central core.
	Water blocking	Water swellable threads, tapes and aramid as necessary to meet requirements
Rip Cords	Material	2 x high strength polyester
Inner Jacket	Material	UV stabilized HDPE
	Colour	Black
	Nom Thickness	1.3 mm
Termite Barrier	Material	UV stabilized Nylon 12
	Colour	Blue
	Nom Thickness	0.45 mm
Rodent Barrier	Material	Round FRP rods
	Application	Helical
Rip Cords	Material	2 x high strength polyester
Outer Jacket	Material	UV stabilized HDPE
	Colour	Black
	Nominal Thickness	1.5 mm
Low Friction Layer	Material	UV stabilized Nylon
	Colour	Blue
	Nominal Thickness	0.45 mm
	Nominal Overall Diameter	Refer to Ordering Information
Cable Weight	Refer to Ordering Information	
Drum Lengths¹	Standard	2 and 4 km Wooden Drums
	Tolerance	± 5%

¹ Non standard drum lengths subject to negotiation. MoQ's may apply for non-stocked items.

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Mechanical Properties

Property	Limit	Standard
Tensile Strength	3.5 KN	IEC 60754-1-2-E1
Crush Resistance	2000 N/100mm	IEC 60794-1-2-E3
Impact Strength	10 N.m	IEC 60794-1-2-E4
Torsion	± 180°	IEC 60794-1-2-E7
Kink	10 x OD	IEC-60794-1-2-E10
Minimum Bend Radius	20 x Diameter under load	IEC 60794-1-2-E11
Water Penetration Test	1 metre water head 3 metre cable sample 24 hour duration No Water leaks	IEC 60794-1-2-F5B
Temperature Range	Storage	-40°C to +70°C
	Installation	-40°C to +70°C
	Operation	-40°C to +70°C

Fibre Properties

Property	Wavelength	Limit
Attenuation (G652.D)	1310 nm	≤ 0.36 dB/km
	1550 nm	≤ 0.23 dB/km

Ordering Information

Part Number	Fibre type	Total number of fibres	Fibres per tube	Number of tubes/fillers	Nom OD (mm)	Cable Weight (kg/km)
GLTSMIAZB006BE	G652D	6	6	1/5	16.5	250
GLTSMIAZB012BE	G652D	12	12	1/5	16.5	250
GLTSMIAZB024BE	G652D	24	12	2/4	16.5	250
GLTSMIAZB048BE	G652D	48	12	4/2	16.5	250
GLTSMIBZB096BE	G652D	96	12	8/4	20.5	380
GLTSMIBZBI44BE	G652D	144	12	12/0	20.5	380

- Madison reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances