

Part No: GLT- AZB Series

Communication / Optical / Loose Tube

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.				

lmo	ages
O6/12/24F Multitube GRP Armoured Optical Fibre Cable Fibre Loose Tube (Gel Filled) FRP Rod Water Swellable Yarn Water Swellable Tape Filler Inner Sheath Nylon - 12 FRP Rod Ripcord Outer Sheath Nylon - 12	96/144F Multitube GRP Armoured Optical Fibre Cable Fibre Loose Tube (Gel Filled) FRP Rod FRP Overjacket Water Swellable Yarn Water Swellable Tape Inner Sheath Nylon - 12 FRP Rod Ripcord Outer Sheath Nylon - 12
48 fibre cable shown. Other fibre counts are of similar construction. Image for Illustration purposes only.	RoHS ROHS





	Features		
•	Outdoor Cable	•	UV Stabilized
	Underground/Direct Burial		Water Blocked
	Rodent Resistant		Termite Resistant
•	Low Friction Outer Coating	•	TMR Certificate 23-15

Construction												
				Mate	Material				PBT			
Tube Details			OD	OD				2 mm				
				Wate	Water bocking				Jelly			
Fibre and Tube Colors	1	2	3	4	5	6	7	8	9	10	11	12
EIA/TIA 598	BE	OE	GN	BN	GY	W	RD	ВК	YW	VT	PK	AQ
				Confi	Configuration				Multiple tubes and fillers around a central strength member			
				No. o	No. of tubes and fillers				Refer to Ordering Information			
Stranding				Perip	Peripheral strength member				Glass yarns wrapped around central core.			
			Wate	Water Blocking				Water swellable threads, tapes, and aramid as necessary to meet requirements				
Rip Cords			Mate	Material				2 x high strength polyester				
			Mate	Material				UV Stabilized HDPE				
Inner Jacket				Colou	Colour				Black			
				Nomi	Nominal Thickness (mm)				1.3			
			Mate	Material				UV stabilized Nylon 12				
Termite Barrier			Colo	Colour				Blue				
			Nomi	Nominal Thickness (mm)				0.45 mm				
		Mate	Material				Round FRP rods					
Rodent Barrier			Appli	Application				Helical				





Construction						
Rip Cords	Material	2 x high strength polyester				
	Material	UV stabilized HDPE				
Outer Jacket	Colour	Black				
	Nominal Thickness (mm)	1.5 mm				
	Material	UV stabilized Nylon				
	Colour	Blue				
Low Friction Layer	Nominal Thickness	0.45 mm				
	Nominal Overall Diameter	Refer to Ordering Information				
Cable Weight	Refer to Ordering Information					
	Standard	2 and 4 km Wooden Drums				
Drum Lengths ¹	Tolerance	± 5%				

Mechanical/Environmental Properties							
Property	Limit	Standard					
	Nos Fibres Tensile						
Tensile Strength	6, 12, 24 & 48 7.5 KN	IEC 60754-1-2-E1					
	96 & 144 14.5 KN						
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 – Loaded	20 x Diameter under load	IEC 60794-1-2-E11					
Water Penetration Test	1 meter water head 3-meter cable sample 24-hour duration No Water leaks	IEC 60794-1-2-F5B					
Temperature Range	Storage -40°C to +70°C	IEC 60794-1-2-F1					

¹ Non-standard drum lengths subject to negotiation.



GLT-AZB Series 240118 (003)



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				
Affeliation (9032.D)	1550 nm	≤ 0.23 dB/km				

Ordering Information							
Part Number	Fibre type	Total number of Fibres	Fibres per tube	Number of Fillers/ tubes	Nom OD (mm)	Cable Weight (kg/km)	
GLTSM1AZB006BE	G652D	6	6	1/5	16.5	250	
GLTSM1AZB012BE	G652D	12	12	1/5	16.5	250	
GLTSM1AZB024BE	G652D	24	12	2/4	16.5	250	
GLTSM1AZB048BE	G652D	48	12	4/4	16.5	250	
GLTSM1BZB096BE	G652D	96	12	8/4	20.5	380	
GLTSM1BZB144BE	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 tolerances.

