

# Optical Fibre Cable

**Part No:** GLT-AS/BS/KS Series

**Description**

Armoured, rodent and termite resistant cable – Nylon termite barrier under Fibre Reinforced Plastic armour. Where xxx is the number of fibres.

Up to 72 Fibres with 12 fibres per tube in a 6-around-1 configuration (AS series)

96 fibre in an 8-around-1 configuration (KS series)

144 fibre in a 12-around-1 configuration (BS series)

Up to 6 jelly filled loose tubes around a central FRP strength member with “dry blocking” using Super Absorbent Polymer based materials.

PE/NY/FRP/PE jacketed

**Applicable Standards**

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

**Suitable Applications**

Designed primarily for outdoor applications such as a trunk, distribution or feeder cable for local loop, metropolitan and long-haul applications.

Suitable for direct burial including by automated methods so long as the mechanical characteristics of the cable are not exceeded.

Not intended or suited to indoor applications except as allowed in S-009 for an outdoor cable.

**Images**

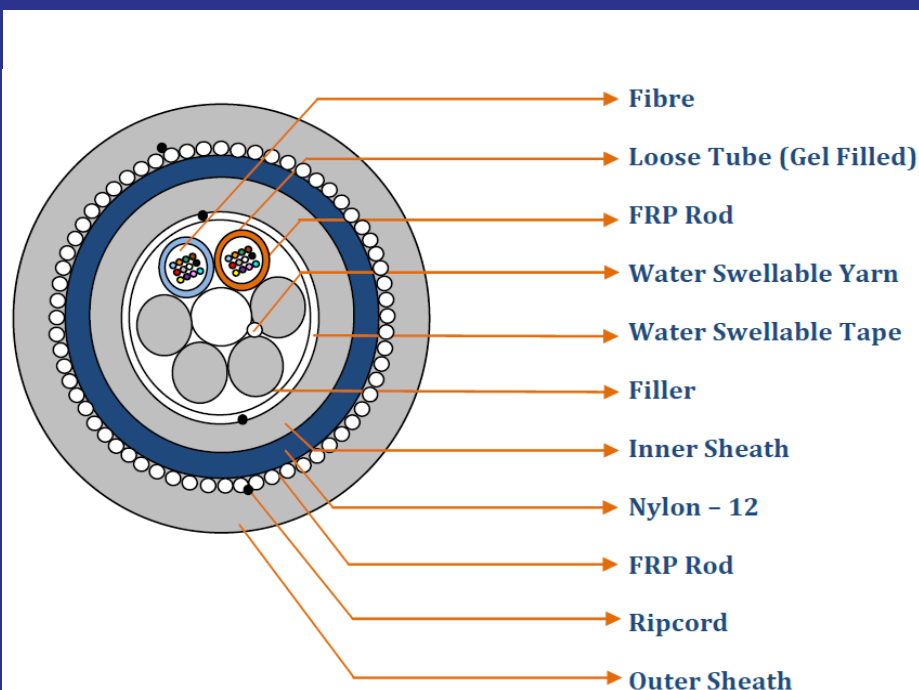


Image for Illustration purposes only



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Construction													
Central Strength Member	Material						Up to 72 fibre			Solid FRP			
							> 72 fibre			PE up-coated FRP			
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	YL	VT	PK	AQ	
Stranding	Configuration						Up to 72 fibre			6-around-1			
							96 fibre			8-around-1			
							144 fibre			12-around-1			
	Peripheral strength member						Aramid yarn						
	Water blocking						Water swellable threads, tapes and aramid as necessary to meet requirements						
Rip Cords	Material						2 x high strength polyester						
Inner Jacket	Material						HDPE – UV Stabilized						
	Colour						Black						
	Nominal Thickness						1.3 mm						
Termite Barrier	Material						Nylon – UV Stabilized						
	Colour						Blue						
	Nominal Thickness						0.45 mm						
Rodent barrier (Armouring)	Material						FRP rods						
	Application						Helical						
Outer Jacket	Material						HDPE – UV Stabilized						
	Colour						Black						
	Nominal Thickness						1.5 mm						
	Nominal Diameter						Up to 72 fibre			16 mm			
							96 fibre			17 mm			
							144 fibre			19.5 mm			

Garland's Pro Series range is the experts' choice for high quality cables.

pro series

GLT-AS BS and KS Series 230626

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## Construction

Cable Weight	Up to 72 fibre		220 ± 25 kg/km
	96 fibre		260 ± 25 kg/km
	144 fibre		310 ± 25 kg/km
Drum Lengths <sup>1</sup>	Standard	2 and 4 km Wooden Drums	
	Tolerance	± 5%	

## Mechanical Properties

Property	Limit		Standard
Tensile Strength	Up to 72 fibre	7.0 KN	IEC-60794-1-2-E1
	96 fibre	9.0 KN	
	144 fibre	> 9 KN	
Crush Resistance	6 KN/100 mm Long Term		IEC 60794-1-2-E3
	3 KN/100 mm Short Term		
Impact Strength	10 N.m		IEC 60794-1-2-E4
Torsion	± 360°		IEC 60794-1-2-E7
Kink	10 x OD		IEC-60794-1-21-E11
Minimum Bend Radius	20 x Diameter under load		IEC 60794-1-2-F5
Water Penetration Test	1 metre water head 3 metre cable sample 24 hour duration No Water leaks		IEC 60794-1-2-F5
Temperature Range	Storage	-40°C to +70°C	IEC 60794-1-2-F1
	Installation	-20°C to +70°C	
	Operation	-40°C to +70°C	

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

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## Part Number Information

Part Number	Fibre Type	No. of Fibres	No. of Tubes	No. of Fillers
GLTSMIAS008BK	G652D	6	1	5
GLTSMIAS012BK	G652D	12	1	5
GLTSMIAS024BK	G652D	24	2	4
GLTSMIAS036BK	G652D	36	3	3
GLTSMIAS048BK	G652D	48	4	2
GLTSMIAS060BK	G652D	60	5	1
GLTSMIAS072BK	G652D	72	6	0
GLTSMIKS096BK	G652D	96	8	0
GLTSMIBS144BK	G652D	144	12	0

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

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