pro series

Industrial / Power / Data / Security / Fibre

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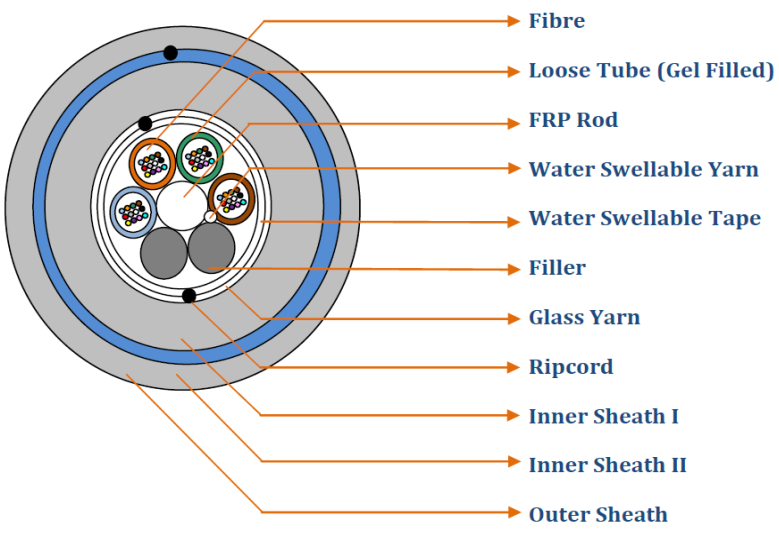
Garland's Pro Series range is the experts' choice for high quality cables.

Optical Fibre Cable

Part No: GLTSM1BG144BK

Description	144 fibre Termite proof cable with a sacrificial PE jacket. Optical cable with 12 fibres per tube in a 12-around-1 configuration. Up to 12 jelly filled loose tubes around a central FRP strength member with "dry blocking" using Super Absorbent Polymer based materials. PE/NY/PE jacketed
Applicable Standards	AS/CA S-008, IEC 60794, AS 1049
Suitable Applications	Designed primarily for outdoor applications such as a trunk, distribution or feeder cable for local loop, metropolitan and long haul applications. This cable can be used in duct or direct burial[1] applications. Not intended or suited to indoor applications except as allowed in S-009 for an outdoor cable.

Cable Cross Sectional Drawing – Illustration purposes only



[1] Direct burial of unarmoured cable may result in damage to the cable. The installer is cautioned to consider the installation conditions and terrain. Where damage to the cable is likely to occur due to rocks, soil movement or burial methods, the use of an armoured cable or ducting is recommended.

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Cable Construction

Tube Details	Material :	PBT
Strength Member	Material:	FRP
Water Blocking	Over FRP Rod:	Water swellable yarn
	Over S-Z core:	Water swellable tape
Rip Cords	Material	Aramid
	Number of Cords	As required
Inner Sheath I	Material	HDPE
	Colour	Black
	Nominal Thickness	1.3 mm
Inner Sheath II (Termite Barrier)	Material	Nylon
	Colour	Blue
	Nominal Thickness	0.45 mm
Outer Sheath	Material	UV resistant HDPE
	Colour	Black
	Nominal Thickness	1.0 mm
	Nominal OD	16.5 mm
Cable Weight	200 ± 15 kg/km	

Mechanical/Environmental Properties

Property	Limit	Standard
Tensile Strength	2 KN	IEC 60794-1-2-E1
Crush Resistance	2.0 KN short term	IEC 60794-1-2-E3
Impact Strength	10 N.m	IEC 60794-1-2-E4
Torsion	± 360°	IEC 60794-1-2-E7
Minimum Bend Radius – Loaded	20 x Diameter	IEC 60794-1-2-F5
Water Penetration Test	1 meter water head 3 metre cable sample 24 hour duration No water leaks	IEC 60794-1-2-F5

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Mechanical/Environmental Properties

Property	Limit	Standard
Temperature Cycling	-40°C to +70°C	IEC 60794-1-2-F1

Part Numbering

Part Number	Fibre Type	Number of Fibres	Number of Tubes	Number of Fillers
GLTSM1BG144BK	G652D	12	12	0

Colour Coding

Fibre and Tube Colors	1	2	3	4	5	6	7	8	9	10	11	12
EIA/TIA 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vt	Pk	Aq

Supply Information

Pack Size	Pack Type	Dimensions	Weight
TBA	Wooden drum	TBA	TBA

Longer lengths subject to negotiation

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