pro series

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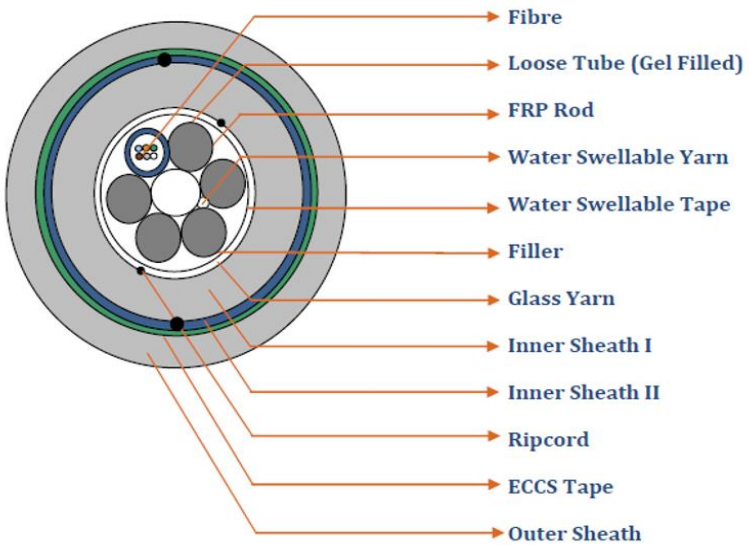
Garland's Pro Series range is the experts' choice for high quality cables.

Optical Fibre Cable

# Part No: GLT-AH series

| | |
|---|---|
| Description | Rodent and termite proof cable – Nylon termite barrier under a Corrrugated Steel Tape Armour (CSTA)<br>Optical cable with 12 fibres per tube in a 6-around-1 configuration.<br>Up to 6 jelly filled loose tubes around a central FRP strength member with "dry blocking" using Super Absorbent Polymer based materials.<br>PE/NY/CSTA/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 armoured cable can be used in duct or direct burial applications.<br><br>Not intended or suited to indoor applications except as allowed in S-009 for an outdoor cable. |

**Cable Cross Sectional Drawing –**




RoHS

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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 | Polyester or Aramid |
| | Number of Cords | 4 |
| 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 |
| Armouring (Rodent Barrier) | Material | CSTA |
| Outer Sheath | Material | UV resistant HDPE |
| | Colour | Black |
| | Nominal Thickness | 1.5 mm |
| | Nominal OD | 15.0 mm |
| Cable Weight | 210 kg/km | |

## Mechanical/Environmental Properties

| Property | Limit | Standard |
|---|---|---|
| Tensile Strength | 2.5 KN | IEC 60794-1-2-E1 |
| Crush Resistance | 2.0 KN short term<br>1.0 KN long term | IEC 60794-1-2-E3 |
| Impact Strength | 2 N.m | IEC 60794-1-2-E4 |
| Torsion | ± 360° | IEC 60794-1-2-E7 |
| Kink | 10 x Diameter | IEC 60794-1-2-E11 |

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| | | |
|---|---|---|
| Minimum Bend Radius – Loaded | 30 x Diameter | IEC 60794-1-2-F5 |
| Water Penetration Test | 1 meter water head<br>3 metre cable sample<br>24 hour duration<br>No water leaks | IEC 60794-1-2-F5 |
| Temperature Cycling | -30°C to +70°C | IEC 60794-1-2-F1 |

## Part Numbering

| Part Number | Fibre Type | Number of Fibres | Number of Tubes | Number of Fillers |
|---|---|---|---|---|
| GLTSM1AH006BK | G652D | 6 | 1 | 5 |
| GLTSM1AH012BK | G652D | 12 | 1 | 5 |
| GLTSM1AH024BK | G652D | 24 | 2 | 4 |
| GLTSM1AH036BK | G652D | 36 | 3 | 3 |
| GLTSM1AH048BK | G652D | 48 | 4 | 2 |
| GLTSM1AH060BK | G652D | 60 | 5 | 1 |
| GLTSM1AH072BK | G652D | 72 | 6 | 0 |
| | | | | |
| GLTOM1AH006BK | OM1 | 6 | 1 | 5 |
| GLTOM1AH012BK | OM1 | 12 | 1 | 5 |
| GLTOM1AH024BK | OM1 | 24 | 2 | 4 |
| GLTOM1AH036BK | OM1 | 36 | 3 | 3 |
| GLTOM1AH048BK | OM1 | 48 | 4 | 2 |
| GLTOM1AH060BK | OM1 | 60 | 5 | 1 |
| GLTOM1AH072BK | OM1 | 72 | 6 | 0 |
| | | | | |
| GLTOM3AH006BK | OM3 | 6 | 1 | 5 |
| GLTOM3AH012BK | OM3 | 12 | 1 | 5 |
| GLTOM3AH024BK | OM3 | 24 | 2 | 4 |
| GLTOM3AH036BK | OM3 | 36 | 3 | 3 |
| GLTOM3AH048BK | OM3 | 48 | 4 | 2 |

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| | | | | |
|---|---|---|---|---|
| GLTOM3AH060BK | OM3 | 60 | 5 | 1 |
| GLTOM3AH072BK | OM3 | 72 | 6 | 0 |
| | | | | |
| GLTOM4AH006BK | OM4 | 6 | 1 | 5 |
| GLTOM4AH012BK | OM4 | 12 | 1 | 5 |
| GLTOM4AH024BK | OM4 | 24 | 2 | 4 |
| GLTOM4AH036BK | OM4 | 36 | 3 | 3 |
| GLTOM4AH048BK | OM4 | 48 | 4 | 2 |
| GLTOM4AH060BK | OM4 | 60 | 5 | 1 |
| GLTOM4AH072BK | OM4 | 72 | 6 | 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 |
|---|---|---|---|
| 2 km | 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