Loose Tube Steel Wire Armoured Fibre Optic Cable

Eland Product Group: FIB

APPLICATION
Maximum 24 fibre uni-tube steel wire armoured cable for indoor or outdoor duct or direct buried installation with full rodent protection.

CHARACTERISTICS
Installation Temperature Range
-5°C to +50°C

Operation Temperature Range
-20°C to +70°C

Storage Temperature Range
-30°C to +70°C

Minimum Bending Radius
15 x overall diameter - no load
20 x overall diameter - load

CONSTRUCTION
Fibres
Up to 24 individual coloured fibres type OM1, OM2, OM3, OM4, OS2

Tube
Gel filled PBT loose tube with optical fibres

Separator
Water-blocking E-glass yarn

Armour
Galvanized steel wire armour

Rip Cord

Outer Sheath
FR (Fire Retardant) - LSZH (Low Smoke Zero Halogen) UV Stable

Fibre Identification
- Red, Green, Blue, Yellow, White, Grey, Brown,
- Violet, Turquoise, Black, Orange, Pink

Sheath Colour
- Black

CABLE STANDARDS
IEC 60794-1-2/E1A, 60794-1-2/E3, IEC 60794-1-2/E4,
IEC 60794-1-2/F1, IEC 60794-1-2/F5, EN 60332-3-10,
EN 60332-3-22, EN 50267-1, EN 50267-2-2, EN 50267-2-3,
EN 61034-1, EN 61034-2

ISO/IEC 17025 LABORATORY TESTED
This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

REGULATORY COMPLIANCE
This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.
### DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF STRANDS</th>
<th>NOMINAL OUTER SHEATH THICKNESS mm</th>
<th>NOMINAL INNER SHEATH THICKNESS mm</th>
<th>NOMINAL TUBE DIAMETER mm</th>
<th>STANDARD PUT-UP LENGTH m</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIB004***LTWLBK</td>
<td>4</td>
<td>1.3</td>
<td>1.1</td>
<td>3</td>
<td>2100/4100 +/− 5%</td>
<td>9.9</td>
<td>180</td>
</tr>
<tr>
<td>FIB008***LTWLBK</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIB012***LTWLBK</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIB016***LTWLBK</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIB024***LTWLBK</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*** either OM1, OM2, OM3, OM4, OS2

### ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>TENISLE STRENGTH N</th>
<th>CRUSH RESISTANCE N/cm</th>
<th>IMPACT RESISTANCE W/N.m</th>
</tr>
</thead>
<tbody>
<tr>
<td>4500</td>
<td>4000/10</td>
<td>3x/20</td>
</tr>
</tbody>
</table>

Fibre Types

- **OM1**: Multimode, 62.5/125
- **OM2**: Multimode, 50/125 Gigabit spec (standard)
- **OM3**: Multimode, 50/125 10-Gigabit Spec
- **OM4**: Multimode, 50/125 40-Gigabit Spec
- **OS2**: Singlemode, 9/125 (Also known as 8/125 and 10/125)

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.