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.

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

Tube
Gel filed 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

CABLE STANDARDS

The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

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

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

Sheath Colour
● Black
### 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>
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<tbody>
<tr>
<td>FIB004***LTWLBK</td>
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<td>FIB008***LTWLBK</td>
<td>8</td>
<td>1.3</td>
<td>1.1</td>
<td>3</td>
<td>2100/4100 +/- 5%</td>
<td>9.9</td>
<td>180</td>
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<td>FIB012***LTWLBK</td>
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<td>FIB016***LTWLBK</td>
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<td>FIB024***LTWLBK</td>
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*** either OM1, OM2, OM3, OM4, OS2

### ELECTRICAL CHARACTERISTICS

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