



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

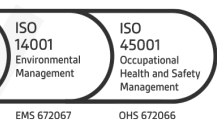
● Black

CABLE STANDARDS

IEC 60794-1-2/E1A, IEC 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

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

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

ELECTRICAL CHARACTERISTICS

| TENSILE STRENGTH N | CRUSH RESISTANCE N/cm | IMPACT RESISTANCE W/N.m |
|-----------------------|--------------------------|----------------------------|
| 4500 | 4000/10 | 3x/20 |

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) |