Tight Buffered Internal/External Fibre Optic Cable

Eland Product Group: FIB

APPLICATION

Fibre optic cable for building backbone and horizontal distribution applications, designed to be compact and yet offer excellent tensile performance making it suitable for a wide range of applications. Predominantly designed for internal use, the construction does enable the cable to be used externally too without the need for transition cable joints and is suitable for direct termination.

CHARACTERISTICS

Temperature Range
-20°C to +60°C

Minimum Bending Radius
No load: 15 x overall diameter
Load: 20 x overall diameter

CONSTRUCTION

Fibres
250um, 900µm fibre type OM1, OM2, OM3, OM4, OS2

Tight Buffered Coating
Polymer covering

Strength Members
Aramid yarn

Dry Water-blocking
Absorbent powder

Rip Cord

Outer Sheath
LSZH (Low Smoke Halogen Free) compound UV stable

Strand Identification
Red Green Blue Yellow White Grey Brown
Violet Turquoise Black Orange Pink
13-24 core: as above ring marked

Sheath Colour
Black

STANDARDS

IEC 60794-1

Flame Retardant according to IEC/EN 60332-1-2

THE CABLE LAB®

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability

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, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.

DIMENSIONS

ELAND PART NO.	NO. OF STRANDS	MAXIMUM TENISLE LOAD N	MINIMUM STATIC BEND mm	MINIMUM DYNAMIC BEND mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
FIB004***TBULBK	4	640	55	80	5	25
FIB008***TBULBK	8	920	65	95	5.9	34
FIB012***TBULBK	12	1100	70	100	6.5	41
FIB016***TBULBK	16	1430	75	113	7.2	47
FIB024***TBULBK	24	1430	85	128	8.3	62

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

ELECTRICAL CHARACTERISTICS

CRUSH N	CRUSH Nm	TORSION turns/m
2000	15	5

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)

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