

# RailSafe Unitube LSC Optical Cables

London Underground APR ID 3345

Datasheet: GD101720v5



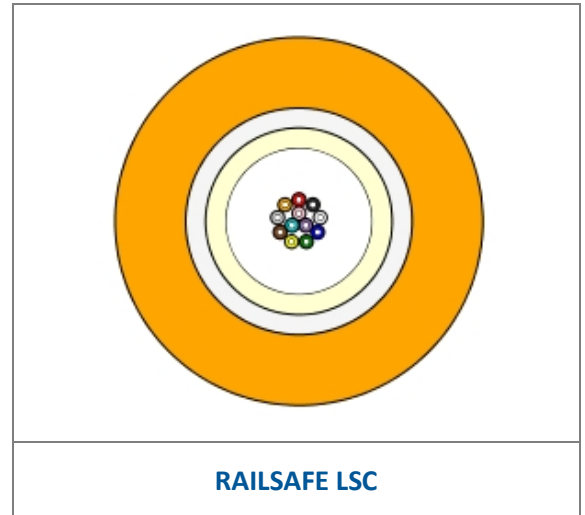
## APPLICATION

RailSafe Unitube LSC optical cables are designed to meet the stringent fire, smoke and toxicity requirements of London Underground Standard 1-085 for use in sub-surface rail applications with the benefits of water swellable yarns for basic rodent resistance and longitudinal water penetration resistance.

## FEATURES AND BENEFITS

- 4, 8, 12, 16, or 24 fibers
- Water-blocking glass yarns
- Enhanced performance HFFR-LS\* outer sheath colored for single-mode and orange for multimode
- Available in standard single-mode and multimode fiber types
- Included in the Leviton Limited 25-Year System Warranty when used in conjunction with Leviton connectivity. System warranties are available for qualified projects installed by certified contractors

\*Halogen-Free-Flame-Retardant – Low-Smoke



## PERFORMANCE PARAMETERS

<b>Max Tensile Load</b> (IEC 60794-1-2-E1)	750N
<b>Max Crush Resistance</b> (IEC 60794-1-2-E3)	2000N
<b>Impact Resistance</b> (IEC 60794-1-2-E4)	5Nm
<b>Water Penetration</b> (IEC 60794-1-2-F5)	<3m, 24h
<b>Smoke Emission</b> (IEC 61034)	Pass
<b>Min Bend Radius</b> (IEC 60794-1-2-E11)	Static - 65mm Dynamic – 98mm

<b>Operational Temperature</b> (IEC 60794-1-2-F1)	-20°C to +60°C
<b>Installation Temperature</b> (IEC 60794-1-2-F1)	-20°C to +60°C
<b>Storage Temperature</b> (IEC 60794-1-2-F1)	-10°C to +60°C
<b>Torsion Resistance</b> (IEC 60794-1-2-E7)	5 Cycles
<b>Toxic Fume Emission</b> (LUL 1-085)	Pass
<b>Fire Performance (LUL 1-085)</b> (IEC 60332-1-2)	Pass Euroclass Eca

## PHYSICAL CHARACTERISTICS

Tube Diameter	Cable Diameter	Cable Weight
3.3mm	6.5mm	47 kg/km

## FIBER IDENTIFICATION

Fiber Identifier	008	062	050	OM2	OM4
ITU/T	G.652.D	G.651.1	G651.1	G651.1	G651.1
IEC 11801	OS1/OS2	OM1	OM2	OM3	OM4
IEC 60793-2	50-B1.3	10-A1b	10-A1a.1	10-A1a.2	10-A1a.3

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## PART NUMBERS

4 Fibers	6 Fibers	8 Fibers
RailSafe 4F 008 UNI LSC-Eca	RailSafe 6F 008 UNI LSC-Eca	RailSafe 8F 008 UNI LSC-Eca
RailSafe 4F 062 UNI LSC-Eca	RailSafe 6F 062 UNI LSC-Eca	RailSafe 8F 062 UNI LSC-Eca
RailSafe 4F 050 UNI LSC-Eca	RailSafe 6F 050 UNI LSC-Eca	RailSafe 8F 050 UNI LSC-Eca
RailSafe 4F OM3 UNI LSC- Eca	RailSafe 6F OM3 UNI LSC-Eca	RailSafe 8F OM3 UNI LSC-Eca
RailSafe 4F OM4 UNI LSC- Eca	RailSafe 6F OM4 UNI LSC-Eca	RailSafe 8F OM4 UNI LSC-Eca

12 Fibers	16 Fibers	24 Fibers
RailSafe 12F 008 UNI LSC-Eca	RailSafe 16F 008 UNI LSC-Eca	RailSafe 24F 008 UNI LSC-Eca
RailSafe 12F 062 UNI LSC-Eca	RailSafe 16F 062 UNI LSC-Eca	RailSafe 24F 062 UNI LSC-Eca
RailSafe 12F 050 UNI LSC-Eca	RailSafe 16F 050 UNI LSC-Eca	RailSafe 24F 050 UNI LSC-Eca
RailSafe 12F OM3 UNI LSC-Eca	RailSafe 16F OM3 UNI LSC-Eca	RailSafe 24F OM3 UNI LSC-Eca
RailSafe 12F OM4 UNI LSC-Eca	RailSafe 16F OM4 UNI LSC-Eca	RailSafe 24F OM4 UNI LSC-Eca

## COUNTRY OF ORIGIN

COO: United Kingdom

*“Leviton is **dedicated to designing, developing and manufacturing** sustainable **high performance** structured cabling and specialty cabling solutions”*

The information contained in this document is valid and correct at the time of issue. Leviton reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.