



DESCRIPTION

A high performance Low Smoke Halogen Free (LSHF) optical fibre cable combining the benefits of water swell and non-metallic armour technology. The cables meet the stringent fire, smoke and toxicity requirements of London Underground Standard 1-085. They are authorised for use by London Underground for installation in sub-surface locations and are listed in the Approved Product Register as ID 1709.

DESIGN

- Non-metallic RBG central strength member
- Layer of 6 stranded elements - 4, 8 or 12 fibres per tube, plus solid fillers as necessary.
- Dry water blocked interstices
- Layer of water blocking tape
- Water blocking glass yarn armour/strength members
- Orange enhanced performance LSHF sheath. Yellow sheath for singlemode fibre as per LUL 1-145.

The cables are available in all standard singlemode and

PHYSICAL CHARACTERISTICS	
Tube Diameter	2.1 mm
Cable Diameter	12.5 mm
Cable Weight	171 kg/km

PERFORMANCE PARAMETERS		
Maximum Tensile Load	2700N	IEC 60794-1-2-E1
Minimum Bend Radius Static	125mm	IEC 60794-1-2-E11
Minimum Bend Radius Dynamic	188mm	IEC 60794-1-2-E11
Maximum Crush Resistance	3000N	IEC 60794-1-2-E3
Temperature Range Operational	-30°C to +60°C	IEC 60794-1-2-F1
Temperature Range Storage	-30°C to +60°C	IEC 60794-1-2-F1
Temperature Range Installation	-10°C to +60°C	IEC 60794-1-2-F1
Impact Resistance	3Nm	IEC 60794-1-2-E4
Sheath Print Abrasion	100 cycles	IEC 60794-1-2-E2
Maximum Stiffness	3Nm ²	IEC 60794-1-2-E17A
Fire Performance	Pass	LUL 1-085
	Euroclass Eca	IEC 60332-1-2

RailSafe Non-metallic Armoured LSC Optical Cables

London Underground APR ID 1709

Datasheet: GD101057v6



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

PART NUMBERS		
4 Fibres per Tube	8 Fibres per Tube	12 Fibres per Tube
RailSafe 4F 008 4FT LSC	RailSafe 8F 008 8FT LSC	RailSafe 12F 008 12FT LSC
RailSafe 8F 008 4FT LSC	RailSafe 16F 008 8FT LSC	RailSafe 24F 008 12FT LSC
RailSafe 12F 008 4FT LSC	RailSafe 24F 008 8FT LSC	RailSafe 36F 008 12FT LSC
RailSafe 16F 008 4FT LSC	RailSafe 32F 008 8FT LSC	RailSafe 48F 008 12FT LSC
RailSafe 20F 008 4FT LSC	RailSafe 40F 008 8FT LSC	RailSafe 60F 008 12FT LSC
RailSafe 24F 008 4FT LSC	RailSafe 48F 008 8FT LSC	RailSafe 72F 008 12FT LSC
RailSafe 4F 062 4FT LSC	RailSafe 8F 062 8FT LSC	RailSafe 12F 062 12FT LSC
RailSafe 8F 062 4FT LSC	RailSafe 16F 062 8FT LSC	RailSafe 24F 062 12FT LSC
RailSafe 12F 062 4FT LSC	RailSafe 24F 062 8FT LSC	RailSafe 36F 062 12FT LSC
RailSafe 16F 062 4FT LSC	RailSafe 32F 062 8FT LSC	RailSafe 48F 062 12FT LSC
RailSafe 20F 062 4FT LSC	RailSafe 40F 062 8FT LSC	RailSafe 60F 062 12FT LSC
RailSafe 24F 062 4FT LSC	RailSafe 48F 062 8FT LSC	RailSafe 72F 062 12FT LSC
RailSafe 4F 050 4FT LSC	RailSafe 8F 050 8FT LSC	RailSafe 12F 050 12FT LSC
RailSafe 8F 050 4FT LSC	RailSafe 16F 050 8FT LSC	RailSafe 24F 050 12FT LSC
RailSafe 12F 050 4FT LSC	RailSafe 24F 050 8FT LSC	RailSafe 36F 050 12FT LSC
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RailSafe 20F 050 4FT LSC	RailSafe 40F 050 8FT LSC	RailSafe 60F 050 12FT LSC
RailSafe 24F 050 4FT LSC	RailSafe 48F 050 8FT LSC	RailSafe 72F 050 12FT LSC
RailSafe 4F OM3 4FT LSC	RailSafe 8F OM3 8FT LSC	RailSafe 12F OM3 12FT LSC
RailSafe 8F OM3 4FT LSC	RailSafe 16F OM3 8FT LSC	RailSafe 24F OM3 12FT LSC
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RailSafe 4F OM4 4FT LSC	RailSafe 8F OM4 8FT LSC	RailSafe 12F OM4 12FT LSC
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“Brand-Rex is dedicated to designing, developing and manufacturing sustainable high performance structured cabling and speciality cabling solutions”

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