



PHYSICAL CHARACTERISTICS	
Tube Diameter	2.1 mm
Cable Diameter	21.2mm
Cable Weight	480kg/km

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 1708.

DESIGN

- per Non-metallic RBG central strength member
- Layer of 12 stranded elements – 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 inner sheath
- Layers of fire barrier tapes
- Orange enhanced performance LSHF outer sheath. Yellow sheath for singlemode fibre as LUL 1-145.

The cables are available in all standard singlemode and multimode fibre types.

PERFORMANCE PARAMETERS		
Maximum Tensile Load	2700N	IEC 60794-1-2-E1
Minimum Bend Radius Static	212mm	IEC 60794-1-2-E11
Minimum Bend Radius Dynamic	318mm	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 1708

Datasheet: GD101059v5

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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-A1 a.1
OM3	G.651.1	OM3	10-A1 a.2
OM4	G.651.1	OM4	10-A1 a.3

PART NUMBERS	
8 Fibres per Tube	12 Fibres per Tube
RailSafe 72F 008 8FT LSC	RailSafe 108F 008 12FT LSC
RailSafe 80F 008 8FT LSC	RailSafe 120F 008 12FT LSC
RailSafe 88F 008 8FT LSC	RailSafe 132F 008 12FT LSC
RailSafe 96F 008 8FT LSC	RailSafe 144F 008 12FT LSC
RailSafe 72F 062 8FT LSC	RailSafe 108F 062 12FT LSC
RailSafe 80F 062 8FT LSC	RailSafe 120F 062 12FT LSC
RailSafe 88F 062 8FT LSC	RailSafe 132F 062 12FT LSC
RailSafe 96F 062 8FT LSC	RailSafe 144F 062 12FT LSC
RailSafe 72F 050 8FT LSC	RailSafe 108F 050 12FT LSC
RailSafe 80F 050 8FT LSC	RailSafe 120F 050 12FT LSC
RailSafe 88F 050 8FT LSC	RailSafe 132F 050 12FT LSC
RailSafe 96F 050 8FT LSC	RailSafe 144F 050 12FT LSC
RailSafe 72F OM3 8FT LSC	RailSafe 108F OM3 12FT LSC
RailSafe 80F OM3 8FT LSC	RailSafe 120F OM3 12FT LSC
RailSafe 88F OM3 8FT LSC	RailSafe 132F OM3 12FT LSC
RailSafe 96F OM3 8FT LSC	RailSafe 144F OM3 12FT LSC
RailSafe 72F OM4 8FT LSC	RailSafe 108F OM4 12FT LSC
RailSafe 80F OM4 8FT LSC	RailSafe 120F OM4 12FT LSC
RailSafe 88F OM4 8FT LSC	RailSafe 132F OM4 12FT LSC
RailSafe 96F OM4 8FT LSC	RailSafe 144F OM4 12FT LSC

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