



- Non-metallic central strength member
- Layer of 8 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 sheath

**APPROVALS**

London Underground: 1709

**PRODUCT DESCRIPTION**

A high performance Fire Resistant Low Smoke Halogen Free (LSHF) optical fibre cable combining the benefits of water swell and non-metallic armour technology. The cables meet the specific fire, smoke and toxicity requirements for use in subsurface rail applications.

Cables are available in all standard singlemode and multimode fibre types.

**PHYSICAL CHARACTERISTICS**

Tube Diameter: 2.1mm  
 Cable Diameter: 13.7mm  
 Cable Weight: 197kg/km

**PERFORMANCE PARAMETERS**

Description	Performance	Standard
Maximum Tensile Load	2700N	IEC 60794-1-2-E1
Minimum Bend Radius Static	137mm	IEC 60794-1-2-E11
Minimum Bend Radius Dynamic	206mm	IEC 60794-1-2-E11
Maximum Crush Resistance	3000N	IEC 60794-1-2-E3
Temperature (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 <sup>2</sup>	IEC 60794-1-2-E17A
Fire Performance	Pass	LUL 1-085

**Product Part Number Format**

RailSafe **aaF bbb ccFT** LSC

aa = Fibre Count		bbb = Fibre Type	cc = Fibres per Tube
8 Fibres per Tube	56 64	OS1/OS2 = 008 62.5/125 = 062 50/125 = 050 OM3 = OM3 OM4 = OM4	8 12
12 Fibres per Tube	84 96		