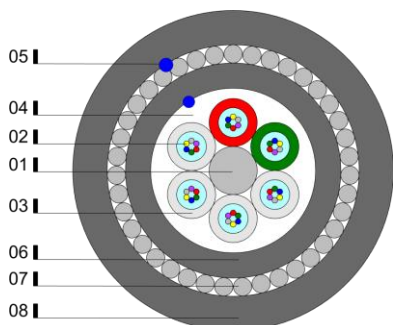




Cable Description

- 01. Central Element
- 02. Fibre Optics
- 03. Loose Tube (Jelly Filled)
- 04. Strength Members
- 05. Ripcord
- 06. Inner Jacket
- 07. Armour
- 08. Outer Jacket

Fire Performance

Flame retardant (IEC 60332-1/-3)
Halogen free (IEC 60754-1/-2)
Low smoke emission (IEC 61034-2)

Applications

Universal (Indoor/Outdoor)

Rodent protection

Excellent rodent resistance

Advantages

Compact / Tough / Resistant /
Reduced diameter / Watertight /
Excellent rodent resistance.
Oil and Hydrocarbons resistant
(IEC 60811-2-1, UIC 895/OR)



MOISTURE
PROTECTED



WATERTIGHT



ULTRAVIOLET
RESISTANCE



RODENT
PROTECTION



FLAME
RETARDANT



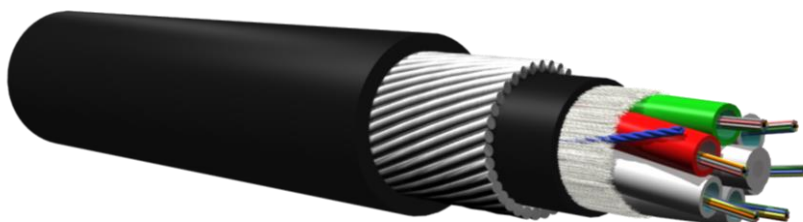
LOW SMOKE
EMISSION



HALOGEN
FREE



OIL RESISTANT



All technical specifications are subject to change without prior notice. Consult OPTRAL for the latest edition.

	SPECIFICATIONS										
Fibres	2 – 12	16	24	32	36	48	64	72	96	128	144
Fibres per tube	2 – 12	8	6	8	12	12	8	12	12	8	12
Total / Active Tubes	6 / 1	6 / 2	6 / 4	6 / 4	6 / 3	6 / 4	8 / 8	6 / 6	8 / 8	18 / 16	12 / 12
Tube Ø (mm)	2.1±0.1										
Inner Jacket	LSZH ¹ - Black										
Armour	Rodent Protected GRP Rods Crown										
Outer Jacket	LSZH-RH ² - Black										
Outer Ø (mm ±0.5)	14.3	14.3	14.3	14.3	14.3	14.3	15.6	14.3	15.6	18.4	18.2
Weight (Kg / Km)	182	182	183	183	183	184	218	186	220	288	304
Max. Tensile Load (N)	3500 (IEC 60794-1-21 E1)										
Max. Crush (N/10cm)	3000 (IEC 60794-1-21 E3)										
Max. Impact (J)	10 (IEC 60794-1-21 E4)										
Water Penetration	According (3m / 1m / 24h / Optical core / IEC 60794-1-22 F5)										
Temperature Range	-30°C to +70°C (Operation) / -10°C to +50°C (Installation) – (IEC 60794-1-22 F1)										
Min. Bending Radius (mm)	20 x Outer Ø (IEC 60794-1-21 E11)										

Standards

Mechanical and Environmental tests according to IEC 60794-1-21 and IEC 60794-1-22.

Fibres colour code: Red - Green - Blue - Yellow - Grey - Violet - Brown - Orange - White - Pink - Black - Turquoise.

Tubes colour code: Red - Green - Natural - ... - Natural. 128FO: Layer1: Red - Green - Natural - Natural - Filler - Filler. Layer2: Red - Green - Natural - ... - Natural. Filler tubes colour Black.

¹ LSZH – Halogen free, low smoke emission, flame retardant thermoplastic compound.

² LSZH-RH – Halogen free, low smoke emission, flame retardant and oil resistant thermoplastic compound.