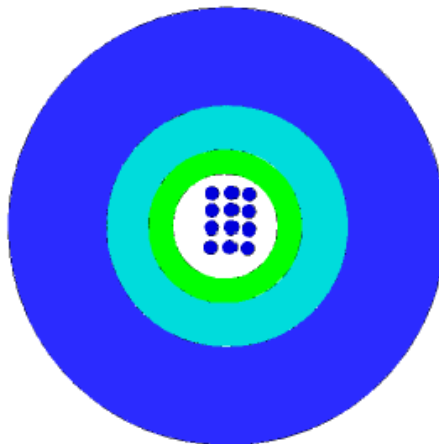


LSZH Dielectric Armoured Fibre Optic Cable (OM1 / OM2 / OM3)

REACTION TO FIRE

- Class Eca



Application and installation

This cable can be used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections as well as fibre to the home drop and access connections.

With its LSZH sheathing this cable is ideal for mixed indoor and outdoor installation. It is equally suited for installation in ducts and on trays. It has a degree of rodent protection.

Standards

- ISO 11801 2nd edition
- EN 50173-1:2002
- IEC 60794-1

Flame Resistance

LSZH:

- IEC 60332-1-2
- IEC 60754-1
- IEC 60754-2
- IEC 61034-2
- Class Eca

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LSZH Dielectric Armoured Fibre Optic Cable (OM1 / OM2 / OM3)

Construction	
Loose tube	Ø2.8 mm gel-filled loose tube with 2 – 16 fibres; Ø3.5 mm loose tube with 24 fibres
Fibre colour code	1 Red 13 Yellow w/mark every 70 mm
	2 Green 14 White w/mark every 70 mm
	3 Blue 15 Grey w/mark every 70 mm
	4 Yellow 16 Turquoise w/mark every 70 mm
	5 White 17 Orange w/mark every 70 mm
	6 Grey 18 Pink w/mark every 70 mm
	7 Brown 19 Yellow w/mark every 35 mm
	8 Violet 20 White w/mark every 35 mm
	9 Turquoise 21 Grey w/mark every 35 mm
	10 Black 22 Turquoise w/mark every 35 mm
	11 Orange 23 Orange w/mark every 35 mm
	12 Pink 24 Pink w/mark every 35 mm
Strength member	Water-blocked E-Glass fibre elements
Sheath	UV stabilised, IEC 50290-2-27, 1.0 mm black sheath (OM1 / OM2 / OS2), 1.0 mm blue sheath (OM3), 1.0 mm violet sheath (OM4).

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LSZH Dielectric Armoured Fibre Optic Cable (OM1 / OM2 / OM3)

Physical Properties

Attribute	IEC 60794-1-2 Method	Limits
■ Nominal outer diameter	-	2 - 16 fibres: 6.0 mm 18 24 fibres: 6.5 mm
■ Nominal weight	-	2 - 16 fibres: 40 kg/km 18 - 24 fibres: 45 kg/km
■ Maximum installation tensile strength	E1	1000 N (fibre strain less than 1/2 of proof test level)
■ Short term tensile strength	E1	750 N (fibre strain less than 1/3 of proof test level)
■ Permanent tensile strength	E1	500 N (no attenuation change, fibre strain less than 1/4 of proof test level)
■ Compressive strength (crush)	E3	1500 N / 100 mm
■ Impact	E4	15 Nm (no attenuation change, no broken cable elements)
■ Torsion	E7	5 cycles ±1 turn
■ Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 100 mm
■ Min. bending radius, unloaded	E11	R = 60 mm
■ Min. bending radius, loaded	-	R = 100 mm
■ Temperature range	F1	Storage: -40 °C to +60 °C Installation: -30 °C to +40 °C Operation: -30 °C to +60 °C.
■ Water penetration	F5B	No water on free end
■ Heat of combustion	-	2-16 fibres: 630 MJ/km = 0.18 kWh/m 24 fibres: 800 MJ/km = 0.22 kWh/km

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LSZH Dielectric Armoured Fibre Optic Cable (OM1 / OM2 / OM3)

Ordering Information

P/N	Description	Fibre Type	Sheat	Fiber Diameter	N° Fibres
05013	Dielectric armoured FO cable	OM1	LSZH	62,5/125 µm	8
05014	Dielectric armoured FO cable	OM1	LSZH	62,5/125 µm	12
04908	Dielectric armoured FO cable	OM2	LSZH	50/125 µm	12
04910	Dielectric armoured FO cable	OM2	LSZH	50/125 µm	24

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