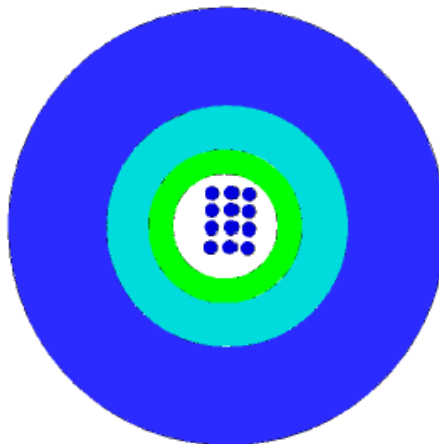


LSZH Dielectric Armoured Fibre Optic Cable (OM1 / OM2 / OM3)

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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RANGE

Fiber Optic

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). |

Data Sheet

Código N°:

Date:

01-01-0-0-ES-V1.0 26/06/2025

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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 |
| 04995 | Dielectric armoured FO cable | OM3 | LSZH | 50/125 µm | 6 |

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