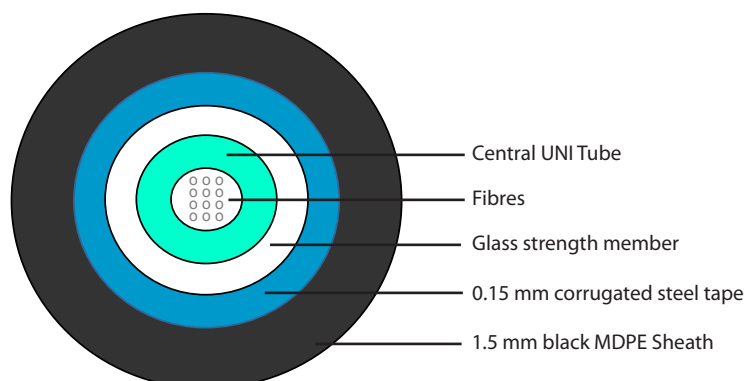


### Optic fibre cable OM 2 - loose tube indoor/corrugated steel tape :

- 6 fibres Cat. No(s): 0 325 05

- 12 fibres Cat. No(s): 0 325 07



## 1. 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 MDPE sheathing this cable is ideal for outdoor installation.

The cable, having a corrugated steel tape armouring is rodent proof.

The cable is well suited for installation in ducts and on trays.

The cable is excellent for direct burial with proper sand back filling.

## 2. CABLE TECHNICAL SPECIFICATIONS

### 2.1 Standards

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

### 2.2 Construction

Loose tube	ø2.8 mm jelly filled loose tube with 2-16 fibres; ø3.5 mm loose tube with 24 fibres
Strength member	E-Glass yarns
Armouring	0.15 mm corrugated steel tape
Sheath	1.5 mm black MDPE sheath, IEC 60811, IEC 60708

### 2.3 Physical properties - IEC 60794-1

Nominal outer diameter	-	8.5 mm
Nominal weight	-	2-16 fibres : 75 kg/km ; 24 fibres : 80 kg/km
Tensile strength (dynamic)	E1	1000 N
Tensile strength (permanent)	E1	500 N
Compressive strength (crush)	E3	2000N
Impact	E4	10 Nm
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 = 55 mm
Min. Bending radius, loaded	-	R = 110 mm
Temperature range	F1	Storage and installation: - 40°C to + 70°C
		Operation: - 40°C to + 70°C.
The max. attenuation variation in the operational temperature range is :		0.2 dB/km

## Optic fibre cable OM 2 - loose tube indoor/corrugated steel tape :

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### 2.4 Marking and packaging

Marking of the cable :

- Legrand
- Part number
- Description
- Date code
- Batch number
- Measurement (remaining length in meters)

Catalogue number	0 325 05	0 325 07
Description	6 fibres OM2 LT Out PE	12 fibres OM2 LT Out PE
Colour	Black	Black
Puck (m)	2000	2000
Packaging	Reel	Reel

## 3. FIBRES TECHNICAL SPECIFICATIONS

### 3.1 Standards and Norms

IEC 60793-2-10 category A1a;  
EN 60793-2-10: type A1a  
ITU Recommendation G.651  
TIA/EIA-492 AAAB

EN 50 173:2007 category OM2  
ISO/IEC 11801:2002 category OM2.  
IEEE 802.3-2002, with amendment 802.3ae - 2002.  
ANSI/TIA/EIA-568.B.3 - 2000

### 3.2 Attenuation (of cable with fibres) - IEC 60793-1-40

Maximum at 850 nm	≤ 2.7 dB/km
Maximum at 1300 nm	≤ 0.8 dB/km
Typical value at 850 nm	≤ 2.5 dB/km
Typical value at 1300 nm	≤ 0.6 dB/km
Inhomogeneity of OTDR trace for any two 1000 meter fibre lengths	Max. 0.2 dB/km
Fibre bending loss R=7.5 mm 850/1300 nm	≤ 0.2 dB / ≤ 0.5 dB
Fibre bending loss R=15 mm 850/1300 nm	≤ 0.1 dB / ≤ 0.3 dB

### 3.3 Bandwidth - IEC 60793-1-41

Overfilled (OFL) modal bandwidth at 850 nm	≥ 500 MHz·km
Overfilled (OFL) modal bandwidth at 1300 nm	≥ 500 MHz·km
Group index of refraction at 850 nm	1.482
Group index of refraction at 1300 nm	1.477

### 3.4 Fibre properties according to IEC - IEC 60793-1

Attribute	Measurement method	Units	Limits
Core diameter	IEC/EN 60793-1-20	µm	50 ± 2.0
Cladding diameter	IEC/EN 60793-1-20	µm	125 ± 1.0
Cladding non-circularity	IEC/EN 60793-1-20	%	≤ 1.0
Core non-circularity	IEC/EN 60793-1-20	%	≤ 5
Core-cladding concentricity error	IEC/EN 60793-1-20	µm	≤ 1.5
Primary coating diameter - uncoloured	IEC/EN 60793-1-21	µm	242 ± 0.5
Primary coating diameter - coloured	IEC/EN 60793-1-21	µm	250 ± 15
Primary coating non-circularity	IEC/EN 60793-1-21	%	≤ 5
Primary coating-cladding concentricity error	IEC/EN 60793-1-21	µm	≤ 6
Proof stress level	IEC/EN 60793-1-30	GPa	≥ 0.7 (≈1%)
Typical average stripforce	IEC/EN 60793-1-32	N	1.7
Strip force (peak)	IEC/EN 60793-1-32	N	1.3 ≤ F <sub>peak.strip</sub> ≤ 8.9
Numerical aperture	IEC/EN 60793-1-43		0.200 ± 0.015