

Optic fibre cable OM3 loose tube 4-24 fibres indoor/outdoor LSZH corrugated steel tape, rodent proof

- 4 fibres Cat. No(s): 0 324 92

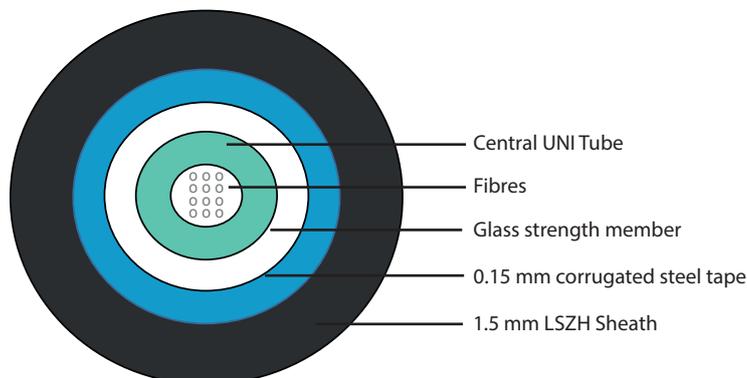
- 8 fibres Cat. No(s): 0 324 94

- 16 fibres Cat. No(s): 0 324 96

- 6 fibres Cat. No(s): 0 324 93

- 12 fibres Cat. No(s): 0 324 95

- 24 fibres Cat. No(s): 0 324 97



Central UNI Tube

Fibres

Glass strength member

0.15 mm corrugated steel tape

1.5 mm LSZH Sheath

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 LSZH sheathing this cable is ideal for indoor/outdoor (limited UV) mixed installation.

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

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

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 4-24 fibres	
Fibre colour code	1 Blue	13 Blue w/mark every 70 mm
	2 Orange	14 Orange w/mark every 70 mm
	3 Green	15 Green w/mark every 70 mm
	4 Brown	16 Brown w/mark every 70 mm
	5 Grey	17 Grey w/mark every 70 mm
	6 White	18 White w/mark every 70 mm
	7 Red	19 Red w/mark every 35 mm
	8 Black	20 White w/mark every 35 mm
	9 Yellow	21 Yellow w/mark every 35 mm
	10 Violet	22 Violet w/mark every 35 mm
	11 Pink	23 Pink w/mark every 35 mm
	12 Aqua	24 Turquoise w/mark every 35 mm
Strength member	Glass yarns	
Armouring	0.15 mm corrugated steel tape	
Sheath	1.5 mm LSZH sheath, UV stabilised, EN 50290-2-27 (Fibre Specific Colours)	
Sheath colours	Cable with SM fibres : yellow RAL 1018	
	Cable with OM2 fibres : orange RAL 2009	
	Cable with OM3 fibres and OM4 fibres : aqua RAL 6027	
	Cable with OM5 fibres : lime	

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2.3 Flame resistance

LSHF-FR (FRNC) : IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class Dca s2, d2, a1; Class Eca

2.4 Heat of combustion

4-24 fibres : 1200 MJ/km - 0,33 kWh/m

2.5 Physical properties - IEC 60794-1

Nominal outer diameter	-	8.5 mm
Nominal weight	-	4-24 fibres : 75 kg/km
Tensile strength (dynamic)	E1	3000 N (fibre strain ≤ 0.6 %)
Tensile strength (permanent)	E1	1000 N (fibre strain ≤ 0.2 %)
Compressive strength (crush)	E3	2200N/100 mm
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, loaded		R = 170 mm
Min. Bending radius, unloaded	E11	R = 85 mm
Temperature range	F1	Storage and installation: - 40°C to + 70°C
		Operation: - 40°C to + 70°C

2.6 Marking and packaging

Marking of the cable :

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

Catalogue number	0 324 92	0 324 93	0 324 94	0 324 95	0 324 96	0 324 97
Description	4 fibres OS2 In/Out LSZH	6 fibres OS2 In/Out LSZH	8 fibres OS2 In/Out LSZH	12 fibres OS2 In/Out LSZH	16 fibres OS2 In/Out LSZH	24 fibres OS2 In/Out LSZH
Colour	Aqua Ral 6027	Aqua Ral 6027	Aqua Ral 6027	Aqua Ral 6027	Aqua Ral 6027	Aqua Ral 6027
Puck (m)	2000	2000	2000	2000	2000	2000
Packaging	Reel	Reel	Reel	Reel	Reel	Reel

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3. FIBRES TECHNICAL SPECIFICATIONS

3.1 Standards and Norms

IEC 60793-2-10 category A1a.2;
 EN 60793-2-10: type A1a.2
 ITU Recommendation G.651
 TIA/EIA-492 AAAC
 EN 50 173:2002, category OM 3
 ISO/IEC 11801:2002, category OM 3
 IEEE 802.3 - 2002 incl. amendment 802.3ae - 2002.

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

Maximum value of cable at 850 nm	≤ 3 dB/km
Maximum value of cable at 1300 nm	≤ 1 dB/km
Maximum value of fibre (for reference only)	≤ 2.5 dB/km
Maximum value of fibre (for reference only)	≤ 0.7 dB/km
Point discontinuity at 850 and 1300 nm	Max. 0.1 dB

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

OFL value at 850 nm	≥ 1500 MHz·km
OFL value at 1300 nm	≥ 500 MHz·km
Effective Modal Bandwidth (EMB) (assured by means of differential mode delay (DMD) measurement as specified in IEC 60793-1-49)	≥ 2000 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 ± 2.5
Cladding diameter	IEC/EN 60793-1-20	µm	125 ± 1.0
Cladding non-circularity	IEC/EN 60793-1-20	%	≤ 0.7
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 ± 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	≤ 10
Proof stress level	IEC/EN 60793-1-30	GPa	≥ 0.7 (≈1%)
Typical average strip force	IEC/EN 60793-1-32	N	1.0 ≤ Fav.strip ≤ 3.0
Strip force (peak)	IEC/EN 60793-1-32	N	1.3 ≤ Fpeak.strip ≤ 8.9
Numerical aperture	IEC/EN 60793-1-43	N	0.200 ± 0.015