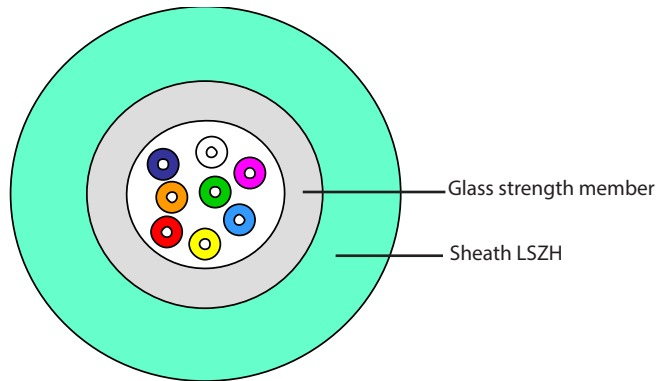


Optic fibre cable OM4 - 900 µm tight tube indoor/outdoor

- 6 fibres Cat. N°(s): 0 326 65/66
- 12 fibres Cat. N°(s): 0 326 67

- 24 fibres Cat. N°(s): 0 326 68
- 2 fibres Cat. N°(s): 0 329 26

- 4 fibres Cat. N°(s): 0 329 28
- 8 fibres Cat. N°(s): 0 329 29
- 16 fibres Cat. N°(s): 0 329 30



1. APPLICATION AND INSTALLATION

This distribution or mini-break-out cable can be used for many indoor applications and limited outdoor applications. The cable features improved tight buffer. Glass yarns provide a degree of rodent protection. Typical cable applications include : LAN and WAN backbones, central office interconnectors, backbones in data centres, and many other. The cable is suited for installation in ducts and on trays. The cable features an UV stabilised, water-blocked, LSZH sheathing, the cable is suited for indoor and outdoor (ducts) runs.

2. CABLE TECHNICAL SPECIFICATIONS

2.1 Standards

EN 187 000
IEC 60794-2
IEC 60794-2-20
ISO 11801 2nd edition
EN 50173-1

2.2 Construction

Fibre	2-24 tightly buffered fibres 900µm ± 50 µm	
	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 Purple	22 Purple w/mark every 35 mm
	11 Pink	23 Pink w/mark every 35 mm
	12 Aqua	24 Aqua w/mark every 35 mm
Strength member	Glass yarns as strength members and rodent protection	
Water blocking	Swellable tread and tape	
Sheath	Halogen free, flame retardant, UV stabilized - Colour = Aqua Ral 6027	

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2.3 Fire rating

IEC 60332-1-2	Single vertical wire test
IEC 60332-3-24	Vertical flame spread of vertically-mounted bunched wires or cables
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034	No dense smoke
EN 50399	Class Dca s2, d2, a1 (cable marking); also compliant with Class Eca

2.4 Physical properties - IEC 60974-1-2

Property	IEC 60794-1-21/22 Method	Value
Nominal diameter	-	2 fibres : 6.0 mm 4 and 6 fibres : 6.5 mm 8 fibres : 7.0 mm 12 fibres : 7.5 mm 16 fibres : 8.0 mm 24 fibres : 8.5 mm
Nominal cable weight	-	2 fibres : 32 kg/km 4 fibres : 34 kg/km 6 fibres : 36 kg/km 8 fibres : 39 kg/km 12 fibres : 43 kg/km 16 fibres : 52 kg/km 24 fibres : 63 kg/km
Permanent tensile strength	E 1	2, 4, 6, 8 and 12 fibres : 500 N 16 fibres : 1000 N 24 fibres : 1500 N
Short term tensile strength (some days)	E 1	2, 4, 6, 8 and 12 fibres : 1000 N 16 fibres : 1400 N 24 fibres : 1600 N
Maximum installation load (a few hours)	-	2, 4, 6, 8 and 12 fibres : 1500 N 16 fibres : 2100 N 24 fibres : 2400 N
Impact	E4	20 J
Crush (compressive strength)	E3	2, 4, 6, 8 and 12 fibres : 2000 N/100 mm 16 and 24 fibres : 1000 N/100 mm
Torsion	E7	5 cycles ± 1 turn
Minimum bending radius of tightly buffered fibres	G1	With OS2 G.65.A1 fibres : 7,5mm With OMx fibres : 7,5mm
Minimum bending radius	E11	2, 4, 6 and 8 fibres : 50mm 12 and 16 fibres : 75mm 24 fibres : 115mm
Minimum bending radius of energized cable	E18A	2, 4, 6 and 8 fibres : 100mm 12 and 16 fibres : 130mm 24 fibres : 230mm
Temperature range	F1	Operation and installation : -20 °C to + 60 °C Storage : -40 °C à + 70 °C

2.5 Marking and packaging

Marking of the cable :
- Legrand
- Part number
- Description
- Euroclass : Dca s2, d2, a1
- Date code
- Batch number
- Measurement (remaining length in meters)

Catalogue number	0 326 65/66	0 326 67	0 326 68	0 329 26	0 329 28	0 329 29	0 329 30
Description	6 fibres OM4 TB In/ Out LSZH	12 fibres OM4 TB In/ Out LSZH	24 fibres OM4 TB In/ Out LSZH	2 fibres OM4 TB In/ Out LSZH	4 fibres OM4 TB In/ Out LSZH	8 fibres OM4 TB In/ Out LSZH	16 fibres OM4 TB In/ Out LSZH
Colour	Aqua Ral 6027	Aqua Ral 6027	Aqua Ral 6027	Aqua Ral 6027	Aqua Ral 6027	Aqua Ral 6027	Aqua Ral 6027
Puck (m)	500/1000	1000	1000	1000	1000	1000	1000
Packaging	Reel	Reel	Reel	Reel	Reel	Reel	Reel

Optic fibre cable OM4 - 900 µm tight tube indoor/outdoor**- 6 fibres** Cat. N°(s): 0 326 65/66**- 24 fibres** Cat. N°(s): 0 326 68**- 4 fibres** Cat. N°(s): 0 329 28**- 8 fibres** Cat. N°(s): 0 329 29**- 12 fibres** Cat. N°(s): 0 326 67**- 2 fibres** Cat. N°(s): 0 329 26**- 16 fibres** Cat. N°(s): 0 329 30**3. FIBRES TECHNICAL SPECIFICATIONS****3.1 Standards and Norms**

IEC 60793-2-10 : type A1a.3

ANSI/TIA-568.C

TIA/EIA-492 AAAD

ISO/IEC 24764

ISO/IEC 11801 Catégorie OM4

ITU G.651.1

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

Maximum attenuation value of cable at 850 nm	≤ 3.0 dB/km
Maximum attenuation value of cable at 1300 nm	≤ 1.0 dB/km
Attenuation limit according to IEC 60793-2-10, 850 nm	≤ 2.5 dB/km
Attenuation limit according to IEC 60793-2-10, 1300 nm	≤ 0.7 dB/km
Attenuation difference between 1380 and 1300 nm	≤ 3.0 dB/km
Point discontinuity at 850nm and 1300 nm	≤ 0.1 dB
Fibre bending loss R=7.5 mm, 2 turns at 850/1300 nm	≤ 0.2 dB / ≤ 0.5 dB
Fibre bending loss R=15 mm, 2 turns at 850/1300 nm	≤ 0.1 dB / ≤ 0.3 dB

3.3 Bandwidth - IEC 60793-1-41

Overfilled (OFL) modal bandwidth at 850 nm	≥ 3500 MHz.km
Overfilled (OFL) modal bandwidth at 1300 nm	≥ 500 MHz.km
Effective Modal Bandwidth (EMB) at 850 nm	≥ 4700 MHz.km

3.4 Group index of refraction - IEC 60793-1-22

Group index of refraction at 850 nm	1.482
Group index of refraction at 1300 nm	1.477

3.5 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	125.0 ± 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
Coating diameter - uncolored	IEC/EN 60793-1-21	µm	242 ± 7
Coating diameter - colored	IEC/EN 60793-1-21	µm	250 ± 15
Coating non-circularity	IEC/EN 60793-1-21	%	≤ 5
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 ≤ $F_{average}$ ≤ 3.0
Strip force (peak)	IEC/EN 60793-1-32	N	1.3 ≤ $F_{peak strip}$ ≤ 8.9
Numerical aperture	IEC/EN 60793-1-43	N	0.200 ± 0.015