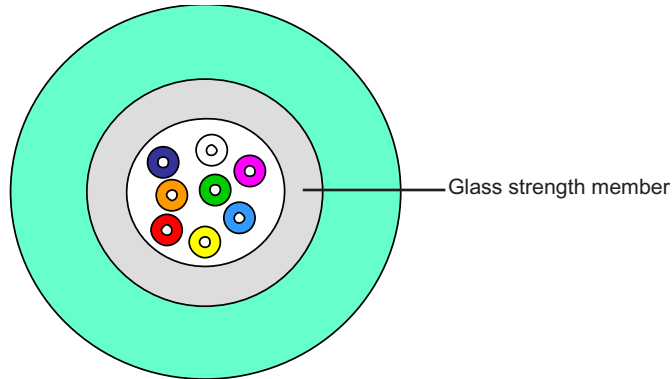


Optic fibre cable OM 4 - 900 µm tight tube indoor/outdoor

- 6 fibres Cat. No(s): 0 326 65/66

- 24 fibres Cat. No(s): 0 326 68

- 12 fibres Cat. No(s): 0 326 67



1. USE

- As backbone in LAN's
- For premises wiring
- Indoor and outdoor in ducts
- Internal wiring
- Data Center

2. GENERAL

This fibre is a graded-index multimode fibre optimised for 10 Gb/s transmission speeds. It has a 50 µm core diameter and a 125 µm cladding diameter. The fibre is designed for use at 850, but can also be used at 1 300 nm. The fibre is compliant with all relevant network standards. This fibre is Easy Strip.

	Fibre count	Pack (m)
0 326 65	6	500
0 326 66	6	1000
0 326 67	12	1000
0 326 68	24	1000

3. CABLE TECHNICAL SPECIFICATIONS

3.1 Standards

- EN 187 000
- IEC 60794-2
- IEC 60794-2-20
- ISO 11801 2nd edition
- EN 50 173-1

3.2 Construction

Fibre	2 - 24 tightly buffered fibres 900 µm +/- 50 µm
Strength member	E-Glass rovings
Sheath	1.1 mm Aqua fire retardant, Halogen free, UV stabilised, EN 50290-2-27

3.3 Fire rating

IEC 60332-1-2	Single vertical wire test
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

3.4 Heat of combustion

0 326 65/66	845 MJ/km	0.23 KWh/m
0 326 67	1180 MJ/km	0.33 KWh/m
0 326 68	1700 MJ/km	0.47 KWh/m

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3.5 Physical properties - IEC 60974-1-2

Permanent tensile strength	E11	6, 12 fibres	500 N
		24 fibres	1 500 N
Short term tensile strength (some days)	E11	6, 12 fibres	1000 N
		24 fibres	1 600 N
Maximum installation load (a few hours)	-	6, 12 fibres	1500 N
		24 fibres	2 400 N
Impact	E4	20 J	
Crush (compressive strength)	E3	3000 N/100 mm	
Torsion	E7	5 cycles +/- 1 turn	
Temperature range	F1	Operation and Installation	- 20°C to 70°C
		Storage	- 40°C to 70°C

3.6 Mechanical properties

Reference	Nominal diameter	Nominal cable weight	Minimum bending radius
0 326 65/66	6.5 mm	36 kg/km	100/50 mm
0 326 67	7.0 mm	43 kg/km	130/75 mm
0 328 68	8.5 mm	63 kg/km	230/115 mm

4. FIBRES TECHNICAL SPECIFICATIONS

4.1 Standards and Norms

IEC 60793-2-10 : type A1a.3 (in development)

EN 60793-2-10: type A1a.3 (in development)

TIA/EIA-492 AAAD

EN 50173-1:2007 Amendment AB category OM4

ISO/IEC 11801:2002 Amendment 2 category OM4

IEEE 802.3-2002 incl. amendment 802.3ae - 2002.

4.2 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 at 850 nm	≤ 2.5 dB/km
Attenuation limit according to IEC 60793-2-10 at 1 300 nm	≤ 0.8 dB/km
Inhomogeneity of OTDR trace for any two 1000 meter fibre lengths	Max. 0.1 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

4.3 Bandwidth - IEC 60793-1-41

OFL value at 850 nm	≥ 3500 MHz•km
OFL value at 1300 nm	≥ 500 MHz•km
Effective Modal Bandwidth (EMB) at 850 nm (assured by means of differential mode delay (DMD) measurement as specified in IEC 60793-1-49)	≥ 4700 MHz•km
Group index of refraction at 850 nm	1.482
Group index of refraction at 1300 nm	1.477

Optic fibre cable OM 4 - 900 µm tight tube indoor/outdoor**- 6 fibres Cat. No(s): 0 326 65/66****- 24 fibres Cat. No(s): 0 326 68****- 12 fibres Cat. No(s): 0 326 67****4.4 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	125.0 ± 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	≤ 1.5
Primary coating diameter - uncoloured	IEC/EN 60793-1-21	µm	242 ± 5.0
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 strip force	IEC/EN 60793-1-32	N	1.7
Strip force (peak)	IEC/EN 60793-1-32	N	$1.3 \leq F_{\text{peak, strip}} \leq 8.9$
Numerical aperture	IEC/EN 60793-1-43	N	0.200 ± 0.015