



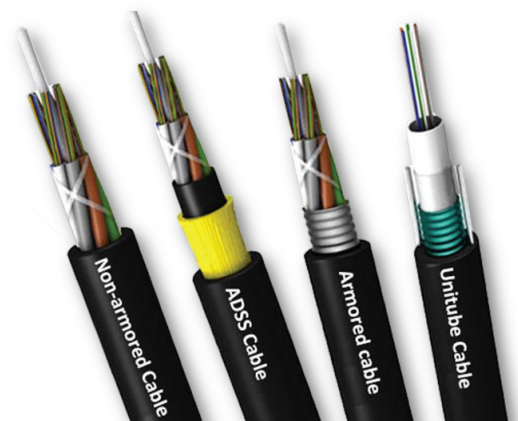
Setting the Standards

OXIN



Fiber Optic Cable

Catalogue



About Oxin Group

Oxin is a leading provider of fiber optic connectivity products used in data communications and Telecommunication networks.

The Company designs, develops, manufactures and sells fiber optic cabling, connectivity, management and systems solutions. It offers a broad range of products directly and through distributors, installers and OEM partners.

Oxin's growth has been founded on quality products, rapid response and excellent customer service. The Company is ISO9001:2000 approved and provides products conformant to international standards. Oxin is dedicated to value and continuous improvement of all its products and services. With headquarters in Paris, Oxin has manufacturing activities in the France, China and US operations. The Company has both volume and quick response manufacturing capabilities and is able to support the global logistics requirements of its customers. Oxin provides customised and customer branded products for OEM customers.

Oxin products are available directly from Oxin or from our worldwide distribution partners.



Setting the Standards

The Oxin fiber optic cable range includes simplex, duplex and flat ribbon patchcords, tight buffered, single loose tube and multi-loose tube distribution cables for internal and external applications as well as many variations of armoured, aerial, rodent resistant and water blocked cables.

The Oxin range has the solution for almost any application and can offer a cut to length service for specific fiber optic cables.

Please call the sales team for more information.



France Warehouse Facility



Cut to Length



Wide Range Available



OXIN USA ●

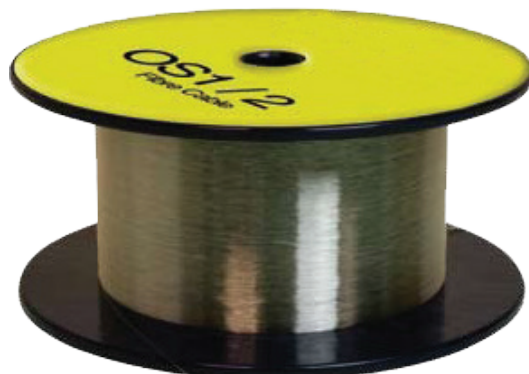
OXIN France ●

● OXIN China

OS1 / OS2 ITU-T G.652D 9/125

Singlemode Optical Fiber

**OS
1|2**
9/125



Description

Today's advanced networks are diverse and almost always complex. The right way ahead is to future-proof these networks and to take precautions to protect them against anything that will create problems, damage or disruption. That means matching the right hardware with the right cabling to guarantee performance – and that means choosing fiber optic cable. Optical fiber cables offer many benefits: high bandwidth and transmission speed, the potential for network growth, extended reach, fault tolerance, greater data security and support for Gigabit and multi-Gigabit protocols and networked applications.

Features and Benefits

1. WP Singlemode optical fiber with doped silica core and silica cladding. Dual layer UV cured acrylic resin primary coatings
2. Dry waterblocking technology within the tubes and under the cables' jacket
3. Full dielectric construction, no grounding required
4. Fiber and sub-units are color coded for easy identification
5. Length markings in meters for easy determination of cable length
6. Small diameter and bend radius facilitate installation in tight spaces
7. Fibers grouped into sets of 12 for maximum density
8. Available in fiber counts up to 144 fibers
9. Available in colored jackets for indoor only installations
10. Available in tight buffered, loose tube and ribbon cable
11. Operational in the entire 1260nm to 1625nm wavelength range
12. Operational in the 1360nm to 1460nm wavelength extended band
13. Low chromatic dispersion in the 1310nm operating window
14. Low attenuation at the 1383nm water peak region

Applications

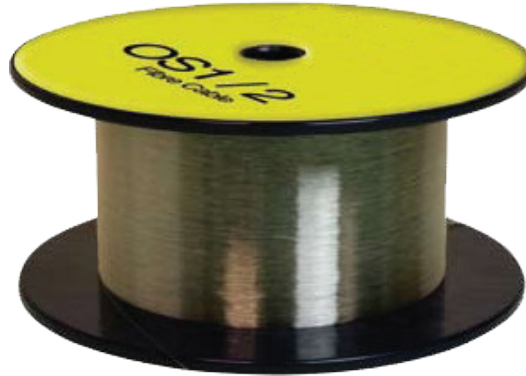
- Supports 1Gb/s up to an indicative 5km in data networks
- Supports high speed multi channel video, data and voice services in metropolitan and access networks ATM, SONET and WDM

Certification and Compliance

ISO/IEC 11801 OS-1	Information technology - Generic cabling for customer premises
IEC 60793-2-50 type B1.3	Sectional specification for category B1 single mode fibers
GR-20-CORE	Generic Requirements for Optical Fiber and Optical Fiber Cable
ITU-T G.652D	Characteristics of Low Water Peak (LWP) Single Mode Optical Fiber
ANSI/TIA/EIA-492CAAB	Detail Specification for Class IVa Dispersion-Unshifted Single-Mode Optical Fibers with Low Water Peak

OS1 / OS2 ITU-T G.652D 9/125

Singlemode Optical Fiber



Ordering Information	Description	Part Number
	OS1/OS2 Singlemode Optical Fiber	OXIN-2XX0
Packaging	Description	
	1/2/4 kilometer per reel	
Transmission Characteristics	Parameter	Value
	Maximum attenuation fiber @ 1310 nm	≤ 0.35 dB/km
	Maximum attenuation cabled @ 1550 nm	≤ 0.21 dB/km
	Maximum attenuation cabled @ 1625 nm	≤ 0.24 dB/km
	Maximum attenuation fiber @ 1310 nm#	≤ 0.38 dB/km
	Maximum attenuation cabled @ 1550 nm#	≤ 0.25 dB/km
	Maximum attenuation cabled @ 1625 nm [⌘]	≤ 0.28 dB/km
	Typical attenuation cabled @ 1310 nm#	≤ 0.34 dB/km
	Typical attenuation cabled @ 1550 nm#	≤ 0.19 dB/km
	Typical attenuation cabled @ 1625 nm [⌘]	≤ 0.25 dB/km
	Chromatic dispersion @ 1310 nm	≤ 3.00 ps/(nm·km)
	Chromatic dispersion @ 1550 nm	≤ 18.00 ps/(nm·km)
	Chromatic dispersion @ 1625 nm	≤ 22.00 ps/(nm·km)
	Cabled cut off wavelength λ_{ccf}	≤ 1260 nm
	Zero dispersion wavelength λ_0	≥ 1300 nm
		≤ 1322 nm
	Zero dispersion slope S_0	≤ 0.090 ps/(km ² ·km)
	Numerical aperture (NA)	0.14 ± 0.015
Polarisation mode dispersion (PMD)	≤ 0.2 ps/√km	
Group refractive index @ 1310 nm	1.4660-1.4677	
Group refractive index @ 1550 nm & 1625 nm	1.4670-1.4682	
Fiber irregularities point and whole length @1310 nm & 1550 nm	≤ 0.05 dB	

Standard OTDR testing wavelengths

⌘ Testing at 1625nm on request

OS1 / OS2 ITU-T G.652D 9/125

Singlemode Optical Fiber

OXIN - 2 A B 0

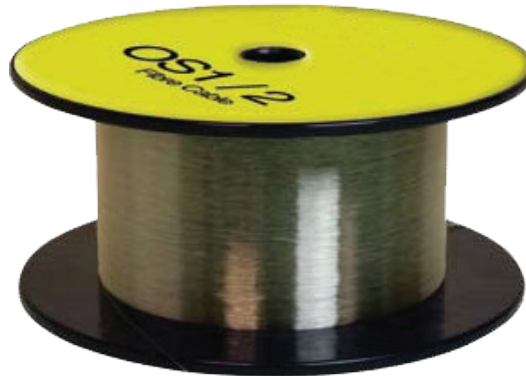
OS1/OS2 Singlemode Optical Fiber
Part Number Builder

Cable type	Core count	
0	1	2
Tight Buffered	4core	6core
1	3	4
Loose Tube 1 jacket	8core	12core
2	5	6
Loose Tube 2 jacket	16core	24core
3	7	8
Figure 8	32core	48core
4	9	0
ADSS	72core	144core

	Parameter	Value
Geometrical Characteristics	Mode field diameter at 1310 nm	9.2 ± 0.6 μm
	Mode field diameter at 1550 nm	10.1 ± 0.8 μm
	Cladding diameter	125 ± 0.9 μm
	Cladding non circularity	≤ 0.7 %
	Coating non circularity	≤ 6.0 %
	Core/cladding concentricity error	≤ 0.5 μm
	Coating/cladding concentricity error	≤ 12 μm
	External diameter (uncoloured)	242 ± 8 μm
	Fiber curl radius	≥ 4 m
Environmental Characteristics	Parameter	Value
	Fiber temperature dependence -60°C to +85°C	≤ 0.05 dB/km
	Fiber temperature and humidity cycling -10°C to +85°C, 98% R.H.	≤ 0.05 dB/km
	Fiber watersoak dependence 23°C for 30 days	≤ 0.05 dB/km
Mechanical Characteristics	Parameter	Value
	Proof test fiber strain for 1 second equivalent	1 %
	Bending dependence 100 turns 60 mm diameter 1310 nm, 1550 nm & 1625 nm	≤ 0.05 dB
	Typical mean coating strip force	1.0 to 3.0 N

ITU-T G.657 A1

Reduced Bend Sensitivity Singlemode Optical Fiber



Description

Today's advanced networks are diverse and almost always complex. The right way ahead is to future-proof these networks and to take precautions to protect them against anything that will create problems, damage or disruption. That means matching the right hardware with the right cabling to guarantee performance – and that means choosing fiber optic cable. Optical fiber cables offer many benefits: high bandwidth and transmission speed, the potential for network growth, extended reach, fault tolerance, greater data security and support for Gigabit and multi-Gigabit protocols and networked applications.

Features and Benefits

1. Dry waterblocking technology within the tubes and under the cables' jacket
2. Full dielectric construction, no grounding required
3. Fiber and sub-units are color coded for easy identification
4. Length markings in meters for easy determination of cable length
5. Small diameter and bend radius facilitate installation in tight spaces
6. Fibers grouped into sets of 12 for maximum density
7. Available in fiber counts up to 72 fibers
8. Available in colored jackets for indoor only installations
9. Available in tight buffered, loose tube and ribbon cable
10. Operational in the entire 1260nm to 1625nm wavelength range
11. Operational in the 1360nm to 1460nm wavelength extended band
12. Low chromatic dispersion in the 1310nm operating window
13. Low attenuation at the 1383nm water peak region

Applications

- Supports 1Gb/s up to an indicative 5km in data networks
- Supports high speed multi channel video, data and voice services in metropolitan and access networks ATM, SONET and WDM

Certification and Compliance

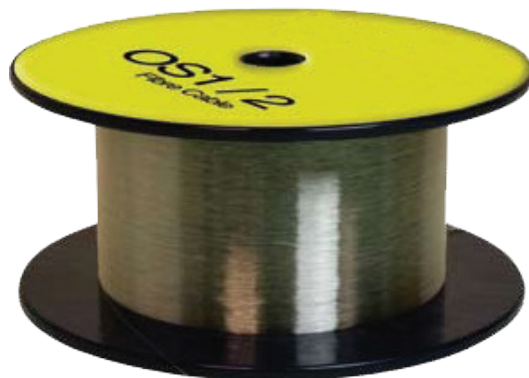
ISO/IEC 11801 OS-1	Information technology - Generic cabling for customer premises
IEC 60793-2-50 type B1.3 and B6.a	Sectional specification for category B1 & B6 single mode fibers
GR-20-CORE	Generic Requirements for Optical Fiber and Optical Fiber Cable
ITU-T G.652D	Characteristics of Low Water Peak (LWP) Single Mode Optical Fiber
ITU-T G.657.A1	Characteristics of a bending-loss insensitive single-mode optical fiber and cable for the access network
ANSI/ICEA S-87-2-50	Standard for Optical Fiber Outside Plant

ITU-T G.657 A1

Reduced Bend Sensitivity Singlemode Optical Fiber

**OS
1|2**

G.657 A1



Ordering Information	Description	Part Number
	ITU-T G.657 A1 Optical Fiber	OXIN-2XX0
Packaging	Description	
	1/2/4 kilometer per reel	
Transmission Characteristics	Parameter	Value
	Maximum attenuation fiber @ 1310 nm	≤ 0.35 dB/km
	Maximum attenuation cabled @ 1550 nm	≤ 0.21 dB/km
	Maximum attenuation cabled @ 1625 nm	≤ 0.24 dB/km
	Maximum attenuation fiber @ 1310 nm#	≤ 0.38 dB/km
	Maximum attenuation cabled @ 1550 nm#	≤ 0.25 dB/km
	Maximum attenuation cabled @ 1625 nm [▫]	≤ 0.28 dB/km
	Typical attenuation cabled @ 1310 nm#	≤ 0.34 dB/km
	Typical attenuation cabled @ 1550 nm#	≤ 0.19 dB/km
	Typical attenuation cabled @ 1625 nm [▫]	≤ 0.25 dB/km
	Chromatic dispersion @ 1310 nm	≤ 3.00 ps/(nm·km)
	Chromatic dispersion @ 1550 nm	≤ 18.00 ps/(nm·km)
	Chromatic dispersion @ 1625 nm	≤ 22.00 ps/(nm·km)
	Cabled cut off wavelength λ_{ccf}	≤ 1260 nm
	Zero dispersion wavelength λ_0	≥ 1300 nm
		≤ 1322 nm
	Zero dispersion slope S_0	≤ 0.090 ps/(km ² ·km)
	Numerical aperture (NA)	0.14 ± 0.015
	Polarisation mode dispersion (PMD)	≤ 0.2 ps/√km
	Group refractive index @ 1310 nm	1.4660-1.4677
Group refractive index @ 1550 nm & 1625 nm	1.4670-1.4682	
Fiber irregularities point and whole length @1310 nm & 1550 nm	≤ 0.05 dB	

Standard OTDR testing wavelengths

▫ Testing at 1625nm on request

ITU-T G.657 A1

Reduced Bend Sensitivity Singlemode Optical Fiber

OXIN - 2 **A** **B** 0

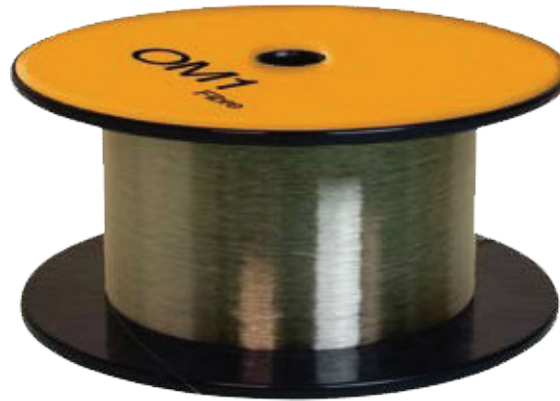
ITU-T G.657 A1 Optical Fiber
Part Number Builder

Cable type	Core count	
0	1	2
Tight Buffered	4core	6core
1	3	4
Loose Tube 1 jacket	8core	12core
2	5	6
Loose Tube 2 jacket	16core	24core
3	7	8
Figure 8	32core	48core
4	9	0
ADSS	72core	144core

	Parameter	Value
Geometrical Characteristics	Mode field diameter at 1310 nm	9.2 ± 0.6 μm
	Mode field diameter at 1550 nm	10.1 ± 0.8 μm
	Cladding diameter	125 ± 0.9 μm
	Cladding non circularity	≤ 0.7 %
	Coating non circularity	≤ 6.0 %
	Core/cladding concentricity error	≤ 0.5 μm
	Coating/cladding concentricity error	≤ 12 μm
	External diameter (uncoloured)	242 ± 8 μm
	Fiber curl radius	≥ 4 m
Environmental Characteristics	Parameter	Value
	Fiber temperature dependence -60°C to +85°C	≤ 0.05 dB/km
	Fiber temperature and humidity cycling -10°C to +85°C, 98% R.H.	≤ 0.05 dB/km
Fiber watersoak dependence 23°C for 30 days	≤ 0.05 dB/km	
Mechanical Characteristics	Parameter	Value
	Proof test fiber strain for 1 second equivalent	1 %
	Bending dependence 100 turns 60 mm diameter 1310 nm, 1550 nm & 1625 nm	≤ 0.05 dB
Typical mean coating strip force	1.0 to 3.0 N	

OM1

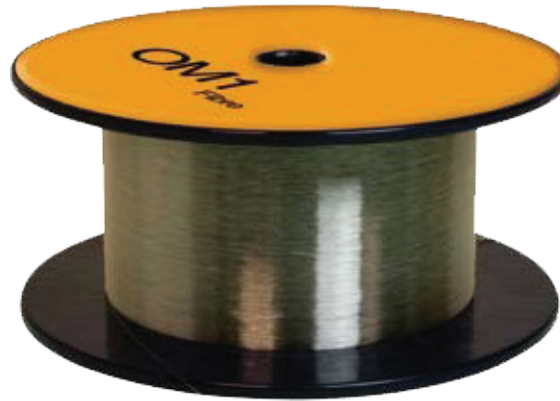
62.5/125 Multimode Optical Fiber



Description	<p>Today's advanced networks are diverse and almost always complex. The right way ahead is to future-proof these networks and to take precautions to protect them against anything that will create problems, damage or disruption. That means matching the right hardware with the right cabling to guarantee performance – and that means choosing fiber optic cable. Optical fiber cables offer many benefits: high bandwidth and transmission speed, the potential for network growth, extended reach, fault tolerance, greater data security and support for Gigabit and multi-Gigabit protocols and networked applications.</p>									
Features and Benefits	<ol style="list-style-type: none"> 1. Graded index multimode optical fiber with doped silica core and silica cladding. Dual layer UV cured acrylic resin primary coatings 2. Dry waterblocking technology within the tubes and under the cables' jacket 3. Full dielectric construction, no grounding required 4. Fiber and sub-units are color coded for easy identification 5. Length markings in meters for easy determination of cable length 6. Small diameter and bend radius facilitate installation in tight spaces 7. Fibers grouped into sets of 12 for maximum density 8. Available in fiber counts up to 144 fibers 9. Available in colored jackets for indoor only installations 10. Available in tight buffered, loose tube and ribbon cable 									
Applications	<ul style="list-style-type: none"> • Gigabit Ethernet in high speed LAN networks over an indicative 275m link length at 850nm wavelength • Legacy networks including Ethernet, Fast Ethernet and FDDI • Premises cabling in data networks including backbone, riser and horizontal • Supports video, data and voice services 									
Certification and Compliance	<table border="1"> <tr> <td data-bbox="304 1839 612 1872">ISO/IEC 11801 OM-1</td> <td data-bbox="628 1839 1485 1872">Information technology - Generic cabling for customer premises</td> </tr> <tr> <td data-bbox="304 1877 612 1910">IEC 60793-2-10 type A1b</td> <td data-bbox="628 1877 1485 1910">Product specifications - Sectional specification for category A1 multimode fibers</td> </tr> <tr> <td data-bbox="304 1915 612 1948">Telcordia GR-20-CORE</td> <td data-bbox="628 1915 1485 1948">Generic Requirements for Optical Fiber and Optical Fiber</td> </tr> <tr> <td data-bbox="304 1953 612 2029">ANSI/TIA/EIA-492AAAA</td> <td data-bbox="628 1953 1485 2029">Detail Specification for 62.5 mm Core Diameter/125 mm Cladding Diameter Class Ia Graded-Index Multimode Optical Fibers</td> </tr> </table>	ISO/IEC 11801 OM-1	Information technology - Generic cabling for customer premises	IEC 60793-2-10 type A1b	Product specifications - Sectional specification for category A1 multimode fibers	Telcordia GR-20-CORE	Generic Requirements for Optical Fiber and Optical Fiber	ANSI/TIA/EIA-492AAAA	Detail Specification for 62.5 mm Core Diameter/125 mm Cladding Diameter Class Ia Graded-Index Multimode Optical Fibers	
ISO/IEC 11801 OM-1	Information technology - Generic cabling for customer premises									
IEC 60793-2-10 type A1b	Product specifications - Sectional specification for category A1 multimode fibers									
Telcordia GR-20-CORE	Generic Requirements for Optical Fiber and Optical Fiber									
ANSI/TIA/EIA-492AAAA	Detail Specification for 62.5 mm Core Diameter/125 mm Cladding Diameter Class Ia Graded-Index Multimode Optical Fibers									

OM1

62.5/125 Multimode Optical Fiber

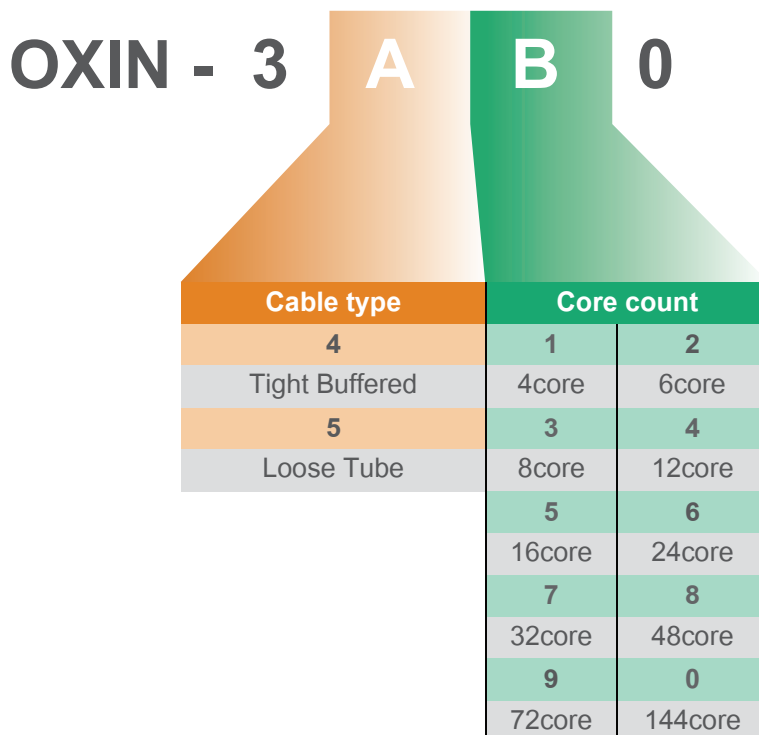


Ordering Information	Description	Part Number
	OM1 Multimode Optical Fiber	OXIN-3XX0
Packaging	Description	
	1/2/4 kilometer per reel	
Transmission Characteristics	Parameter	Value
	Maximum attenuation fiber @ 850 nm	≤ 3.0 dB/km
	Maximum attenuation fiber @ 1300 nm	≤ 0.7 dB/km
	Maximum attenuation cabled @ 850 nm	≤ 3.5 dB/km
	Maximum attenuation cabled @ 1300 nm	≤ 1.5 dB/km
	Typical attenuation cabled @ 850 nm	≤ 2.9 dB/km
	Typical attenuation cabled @ 1300 nm	≤ 1.2 dB/km
	Zero dispersion wavelength λ_0	≥ 1320 nm
		≤ 1365 nm
	Zero dispersion slope S_0	≤ 0.11 ps/(km ² ·km)
	Numerical aperture (NA)	0.275 ± 0.015
	Modal bandwidth @ 850nm overfilled LED	≥ 200 MHz·km
	Modal bandwidth @ 1300nm overfilled LED	≥ 500 MHz·km
	Group refractive index @ 850 nm	1.496
Group refractive index @ 1300 nm	1.491	
Fiber irregularities point and whole length @1300 nm	≤ 0.2 dB	

OM1

62.5/125 Multimode Optical Fiber

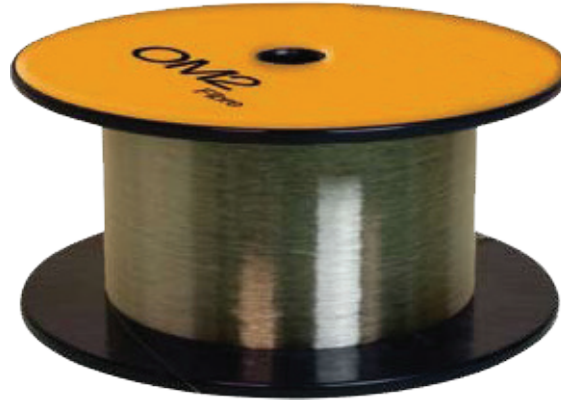
OM1 multimode Optical Fiber
Part Number Builder



	Parameter	Value
Geometrical Characteristics	Core diameter	62.5 ± 2.5 μm
	Core non circularity	≤ 6 %
	Cladding diameter	125 ± 2 μm
	Cladding non circularity	≤ 1.0 %
	Core/cladding concentricity error	≤ 1.5 μm
	Coating/cladding concentricity error	≤ 12 μm
	External diameter (uncoloured)	245 ± 10 μm
Environmental Characteristics	Parameter	Value
	Fiber temperature dependence -60°C to +85°C	≤ 0.1 dB/km
	Fiber temperature and humidity cycling -10°C to +85°C, %98 R.H.	≤ 0.1 dB/km
	Fiber watersoak dependence 23°C for 30 days	≤ 0.1 dB/km
Mechanical Characteristics	Parameter	Value
	Proof test fiber strain for 1 second equivalent	1 %
	Bending dependence 100 turns 75 mm diameter 850 nm & 1300 nm	≤ 0.5 dB
	Typical mean coating strip force	1.5 to 2.7 N

OM
2
50/125

OM2
50/125 Multimode Optical Fiber



Description

Today's advanced networks are diverse and almost always complex. The right way ahead is to future-proof these networks and to take precautions to protect them against anything that will create problems, damage or disruption. That means matching the right hardware with the right cabling to guarantee performance – and that means choosing fiber optic cable. Optical fiber cables offer many benefits: high bandwidth and transmission speed, the potential for network growth, extended reach, fault tolerance, greater data security and support for Gigabit and multi-Gigabit protocols and networked applications.

Features and Benefits

1. Graded index multimode optical fiber with doped silica core and silica cladding. Dual layer UV cured acrylic resin primary coatings
2. Dry waterblocking technology within the tubes and under the cables' jacket
3. Full dielectric construction, no grounding required
4. Fiber and sub-units are color coded for easy identification
5. Length markings in meters for easy determination of cable length
6. Small diameter and bend radius facilitate installation in tight spaces
7. Fibers grouped into sets of 12 for maximum density
8. Available in fiber counts up to 144 fibers
9. Available in colored jackets for indoor only installations
10. Available in tight buffered, loose tube and ribbon cable

Applications

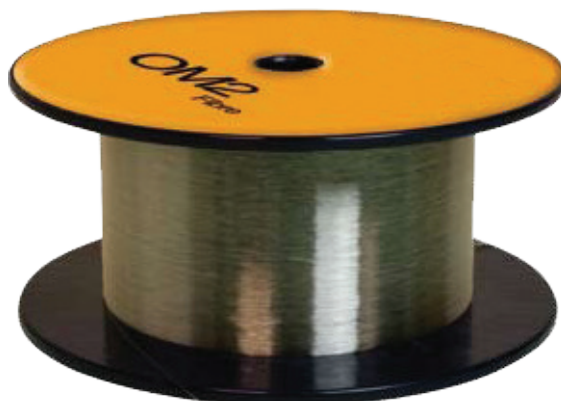
- For use in 1 Gb/s high speed LAN networks over a 550m indicative link length at 850nm wavelength using a laser launch
- High speed and legacy networks including Gigabit Ethernet, Fast Ethernet and Ethernet
- Premises cabling in data networks including backbone, riser and horizontal
- Supports video, data and voice services

Certification and Compliance

ISO/IEC 11801 OM-2	Information technology - Generic cabling for customer premises
IEC 60793-2-10 type A1a.1	Product specifications - Sectional specification for category A1 multimode
Telcordia GR-20-CORE	Generic Requirements for Optical Fiber and Optical Fiber Cable
ITU-T G.651	Characteristics of multimode graded index Optical Fiber
ANSI/TIA/EIA-492AAAB	Detail Specification for 50 mm Core Diameter/125 mm Cladding Diameter Class Ia Graded-Index Multimode Optical Fibers

OM2

50/125 Multimode Optical Fiber



Ordering Information	Description	Part Number
	OM2 Multimode Optical Fiber	OXIN-3XX0
Packaging	Description	
	1/2/4 kilometer per reel	
Transmission Characteristics	Parameter	Value
	Maximum attenuation fiber @ 850 nm	≤ 2.5 dB/km
	Maximum attenuation fiber @ 1300 nm	≤ 0.7 dB/km
	Maximum attenuation cabled @ 850 nm	≤ 3.5 dB/km
	Maximum attenuation cabled @ 1300 nm	≤ 1.5 dB/km
	Typical attenuation cabled @ 850 nm	≤ 2.7 dB/km
	Typical attenuation cabled @ 1300 nm	≤ 0.9 dB/km
	Zero dispersion wavelength λ_0	≥ 1295 nm
		≤ 1320 nm
	Zero dispersion slope S_0	≤ 0.11 ps/(km ² ·km)
	Numerical aperture (NA)	0.200 ± 0.015
	Modal bandwidth @ 850nm overfilled LED	≥ 500 MHz·km
	Modal bandwidth @ 1300nm overfilled LED	≥ 500 MHz·km
	Group refractive index @ 850 nm	1.482
Group refractive index @ 1300 nm	1.477	
Fiber irregularities point and whole length @1300 nm	≤ 0.2 dB	

OM2

50/125 Multimode Optical Fiber

OXIN - 3 **A** **B** **0**

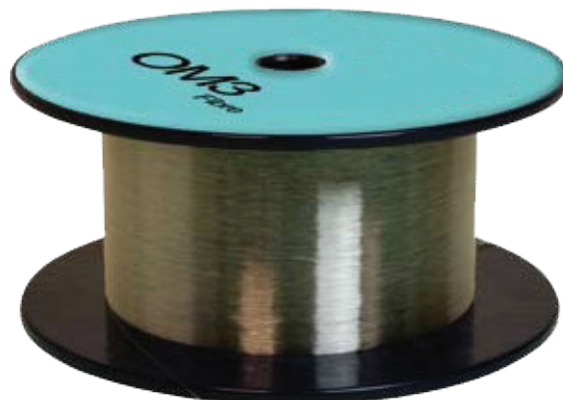
OM2 multimode Optical Fiber
Part Number Builder

Cable type	Core count	
0	1	2
Tight Buffered	4core	6core
1	3	4
Loose Tube	8core	12core
	5	6
	16core	24core
	7	8
	32core	48core
	9	0
	72core	144core

	Parameter	Value
Geometrical Characteristics	Core diameter	50 ± 2.5 µm
	Core non circularity	≤ 6 %
	Cladding diameter	2 ± 125 µm
	Cladding non circularity	≤ 1.0 %
	Core/cladding concentricity error	≤ 1.5 µm
	Coating/cladding concentricity error	≤ 12 µm
	External diameter (uncoloured)	10 ± 245 µm
Environmental Characteristics	Parameter	Value
	Fiber temperature dependence -60°C to +85°C	≤ 0.1 dB/km
	Fiber temperature and humidity cycling -10°C to +85°C, %90 R.H.	≤ 0.2 dB/km
	Fiber watersoak dependence 23°C for 30 days	≤ 0.2 dB/km
Mechanical Characteristics	Parameter	Value
	Proof test fiber strain for 1 second equivalent	1 %
	Bending dependence 100 turns 75 mm diameter 850 nm & 1300 nm	≤ 0.5 dB
	Typical mean coating strip force	1.7 to 2.7 N

OM3

50/125 Multimode Optical Fiber



Description

Today's advanced networks are diverse and almost always complex. The right way ahead is to future-proof these networks and to take precautions to protect them against anything that will create problems, damage or disruption. That means matching the right hardware with the right cabling to guarantee performance – and that means choosing fiber optic cable. Optical fiber cables offer many benefits: high bandwidth and transmission speed, the potential for network growth, extended reach, fault tolerance, greater data security and support for Gigabit and multi-Gigabit protocols and networked applications.

Features and Benefits

1. Graded index multimode optical fiber with doped silica core and silica cladding. Dual layer UV cured acrylic resin primary coatings
2. Dry waterblocking technology within the tubes and under the cables' jacket
3. Full dielectric construction, no grounding required
4. Fiber and sub-units are color coded for easy identification
5. Length markings in meters for easy determination of cable length
6. Small diameter and bend radius facilitate installation in tight spaces
7. Fibers grouped into sets of 12 for maximum density
8. Available in fiber counts up to 144 fibers
9. Available in colored jackets for indoor only installations
10. Available in tight buffered, loose tube and ribbon cable

Applications

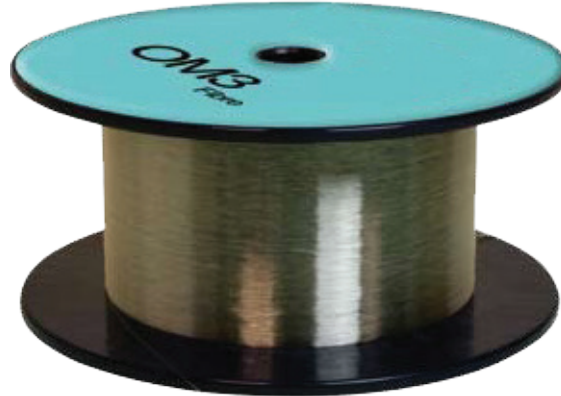
- For use in 10Gb/s / 1Gb/s high speed LAN networks over a 300m / 1000m indicative link length at 850nm wavelength using a laser launch
- High speed and legacy networks including Gigabit Ethernet, Fast Ethernet and Ethernet
- Data centres
- Premises cabling in data networks including backbone, riser and horizontal
- Supports video, data and voice services

Certification and Compliance

ISO/IEC 11801 OM-3	Information technology - Generic cabling for customer premises
IEC 60793-2-10 type A1a.2	Product specifications - Sectional specification for category A1 multimode
Telcordia GR-20-CORE	Generic Requirements for Optical Fiber and Optical Fiber Cable
ITU-T G.651	Characteristics of multimode graded index Optical Fiber
ANSI/TIA/EIA-492AAAC	Detail Specification for 850-nm Laser-Optimized, 50-um Core Diameter/125-um Cladding Diameter Class Ia Graded-Index Multimode Optical Fibers

OM
3
50/125

OM3 50/125 Multimode Optical Fiber



Ordering Information	Description	Part Number
	OM3 Multimode Optical Fiber	OXIN-3XX0
Packaging	Description	
	1/2/4 kilometer per reel	
Transmission Characteristics	Parameter	Value
	Maximum attenuation fiber @ 850 nm	≤ 2.5 dB/km
	Maximum attenuation fiber @ 1300 nm	≤ 0.7 dB/km
	Maximum attenuation cabled @ 850 nm	≤ 3.5 dB/km
	Maximum attenuation cabled @ 1300 nm	≤ 1.5 dB/km
	Typical attenuation cabled @ 850 nm	≤ 2.7 dB/km
	Typical attenuation cabled @ 1300 nm	≤ 0.9 dB/km
	Zero dispersion wavelength λ_0	≥ 1295 nm
		≤ 1320 nm
	Zero dispersion slope S_0	≤ 0.11 ps/(km ² ·km)
	Numerical aperture (NA)	0.200 ± 0.015
	Modal bandwidth @ 850nm overfilled LED	≥ 1500 MHz·km
	Modal bandwidth @ 1300nm overfilled LED	≥ 500 MHz·km
Group refractive index @ 850 nm	1.482	
Group refractive index @ 1300 nm	1.477	
Fiber irregularities point and whole length @1300 nm	≤ 0.2 dB	

OM3

50/125 Multimode Optical Fiber

OM3 multimode Optical Fiber
Part Number Builder

OXIN - 3 **A** **B** 0

Cable type	Core count	
2	1	2
Tight Buffered	4core	6core
3	3	4
Loose Tube	8core	12core
	5	6
	16core	24core
	7	8
	32core	48core
	9	0
	72core	144core

	Parameter	Value
Geometrical Characteristics	Core diameter	50 ± 2.5 μm
	Core non circularity	≤ 6 %
	Cladding diameter	125 ± 2μm
	Cladding non circularity	≤ 1.0 %
	Core/cladding concentricity error	≤ 1.5 μm
	Coating/cladding concentricity error	≤ 12 μm
	External diameter (uncoloured)	245 ± 10 μm
Environmental Characteristics	Parameter	Value
	Fiber temperature dependence -60°C to +85°C	≤ 0.1 dB/km
	Fiber temperature and humidity cycling -10°C to +85°C, %90 R.H.	≤ 0.2 dB/km
	Fiber watersoak dependence 23°C for 30 days	≤ 0.2 dB/km
Mechanical Characteristics	Parameter	Value
	Proof test fiber strain for 1 second equivalent	1 %
	Bending dependence 100 turns 75 mm diameter 850 nm & 1300 nm	≤ 0.5 dB
	Typical mean coating strip force	1.7 to 2.7 N

OM
4
50/125

OM4
50/125 Multimode Optical Fiber



Description

Today's advanced networks are diverse and almost always complex. The right way ahead is to future-proof these networks and to take precautions to protect them against anything that will create problems, damage or disruption. That means matching the right hardware with the right cabling to guarantee performance – and that means choosing fiber optic cable. Optical fiber cables offer many benefits: high bandwidth and transmission speed, the potential for network growth, extended reach, fault tolerance, greater data security and support for Gigabit and multi-Gigabit protocols and networked applications.

Features and Benefits

1. Graded index multimode optical fiber with doped silica core and silica cladding. Dual layer UV cured acrylic resin primary coatings
2. Dry waterblocking technology within the tubes and under the cables' jacket
3. Full dielectric construction, no grounding required
4. Fiber and sub-units are color coded for easy identification
5. Length markings in meters for easy determination of cable length
6. Small diameter and bend radius facilitate installation in tight spaces
7. Fibers grouped into sets of 12 for maximum density
8. Available in fiber counts up to 144 fibers
9. Available in colored jackets for indoor only installations
10. Available in tight buffered, loose tube and ribbon cable

Applications

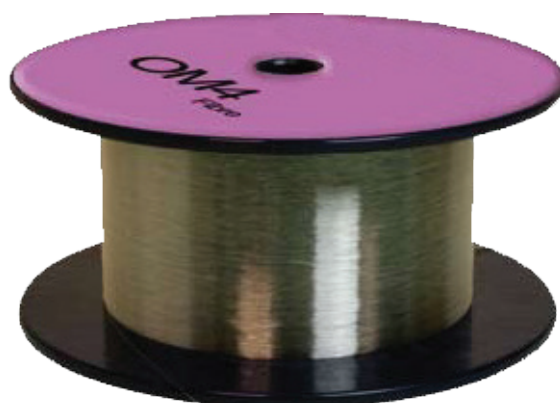
- For use in 10Gb/s / 1Gb/s high speed LAN networks over a 300m / 1000m indicative link length at 850nm wavelength using a laser launch
- High speed and legacy networks including Gigabit Ethernet, Fast Ethernet and Ethernet
- Data centres
- Premises cabling in data networks including backbone, riser and horizontal
- Supports video, data and voice services

Certification and Compliance

ISO/IEC 11801 OM-4	Information technology - Generic cabling for customer premises
IEC 60793-2-10 type A1a.3	Product specifications - Sectional specification for category A1 multimode
Telcordia GR-20-CORE	Generic Requirements for Optical Fiber and Optical Fiber Cable
ITU-T G.651	Characteristics of multimode graded index Optical Fiber
ANSI/TIA/EIA-492AAAD	Detail Specification for 850-nm Laser-Optimized, 50-um Core Diameter/125-um Cladding Diameter Class Ia Graded-Index Multimode Optical Fibers

OM4

50/125 Multimode Optical Fiber



Ordering Information	Description	Part Number	
	OM4 Multimode Optical Fiber	OXIN-3XX0	
Packaging	Description		
	1/2/4 kilometer per reel		
	Parameter	Value	
Transmission Characteristics	Maximum attenuation fiber @ 850 nm	≤ 2.3 dB/km	
	Maximum attenuation fiber @ 1300 nm	≤ 0.6 dB/km	
	Maximum attenuation cabled @ 850 nm	≤ 3.5 dB/km	
	Maximum attenuation cabled @ 1300 nm	≤ 1.5 dB/km	
	Typical attenuation cabled @ 850 nm	≤ 2.7 dB/km	
	Typical attenuation cabled @ 1300 nm	≤ 0.9 dB/km	
	Zero dispersion wavelength λ_0		≥ 1295 nm
			≤ 1340 nm
	Zero dispersion slope S_0		≤ 0.11 ps/(km ² ·km)
	Numerical aperture (NA)		0.200 ± 0.015
	Modal bandwidth @ 850nm overfilled LED		≥ 3500 MHz·km
	Modal bandwidth @ 1300nm overfilled LED		≥ 500 MHz·km
	Effective modal bandwidth @ 850nm laser launch		≥ 4700 MHz·km
	Group refractive index @ 850 nm		1.480
Group refractive index @ 1300 nm		1.479	
Fiber irregularities point and whole length @1300 nm		≤ 0.1 dB	

OM4

50/125 Multimode Optical Fiber

OXIN - 3 **A** **B** 0

OM4 multimode Optical Fiber
Part Number Builder

Cable type	Core count	
6	1	2
Tight Buffered	4core	6core
7	3	4
Loose Tube	8core	12core
	5	6
	16core	24core
	7	8
	32core	48core
	9	0
	72core	144core

	Parameter	Value
Geometrical Characteristics	Core diameter	50 ± 2.5 μm
	Core non circularity	≤ 6 %
	Cladding diameter	124.9 ± 1.1 μm
	Cladding non circularity	≤ 1.0 %
	Core/cladding concentricity error	≤ 1.5 μm
	Coating/cladding concentricity error	≤ 12 μm
	External diameter (uncoloured)	244.5 ± 7.5 μm
Environmental Characteristics	Parameter	Value
	Fiber temperature dependence -60°C to +85°C	≤ 0.1 dB/km
	Fiber temperature and humidity cycling -10°C to +85°C, %90 R.H.	≤ 0.1 dB/km
	Fiber watersoak dependence 23°C for 30 days	≤ 0.2 dB/km
Mechanical Characteristics	Parameter	Value
	Proof test fiber strain for 1 second equivalent	1 %
	Bending dependence 100 turns 75 mm diameter 850 nm & 1300 nm	≤ 0.5 dB
	Typical mean coating strip force	1.0 to 3.0 N

Multi Loose Tube Fiber Optic Cable



Description

The multi loose tube cable construction consists of up to 250 ,144µm optical fibers in 12 fiber gel filled loose tubes with fillers where appropriate, SZ stranded around a fiber reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape.

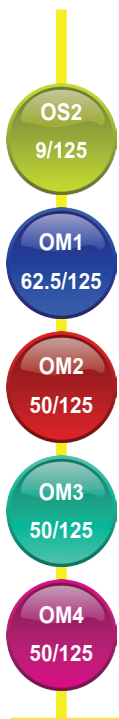
Helically applied water blocking e-glass nonmetallic strength members with ripcord and black high density polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket.

Features and Benefits

1. Choice of fiber types
2. Colour coded fibers
3. Compact 250µm loose tube construction
4. PE jacket for environmental protection and water permeation resistance
5. Flame retardant LSZH jacket option for enhanced fire performance

Applications

- Suitable for external duct applications
- Suitable for applications where environmental resistance is required



Fire Retardant



Water Resistant



Rodent Resistant



Internal Use



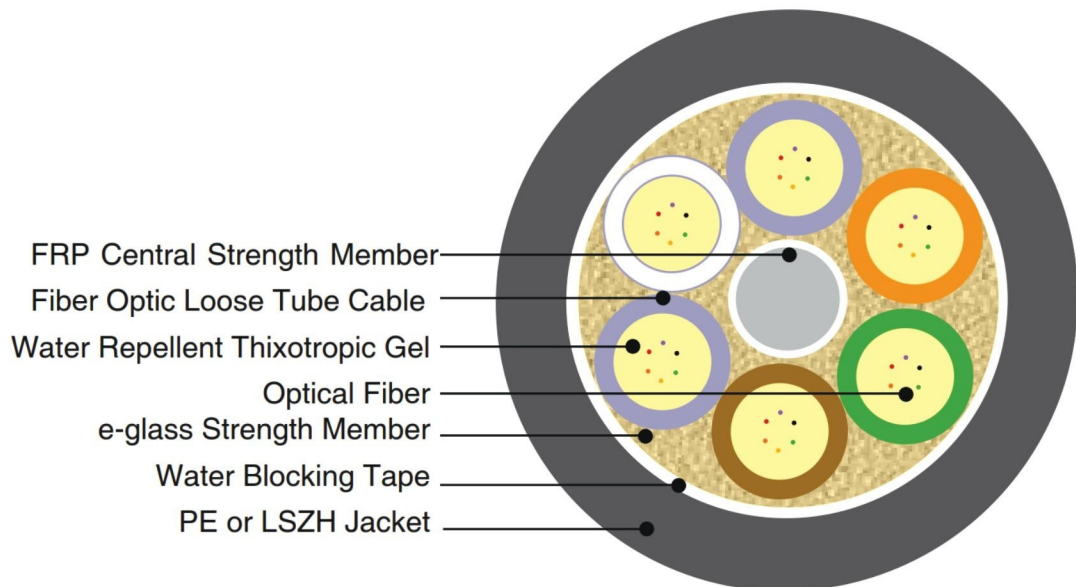
External Use



Multi Loose Tube Fiber Optic Cable



Technical Characteristics	Parameter	unit	24-48 core	72 core	144 core
	Outer Diameter	mm	10.5 ± 0.4	11.1 ± 0.4	15.6 ± 0.4
	Weight	kg/km	90	97	178
	Max. Load (installation)	N	1500	1500	1500
	Max. Load (installed)	N	600	600	600
	Min. Bend Radius	mm	210	220	310
	Min. Bend Radius (installed)	mm	105	110	155
	Operating Temp.	°C	-40 ~ +70	-40 ~ +70	-40 ~ +70
	Storage Temp.	°C	-20 ~ +60	-20 ~ +60	-20 ~ +60
	Installation Temp.	°C	-20 ~ +60	-20 ~ +60	-20 ~ +60
Crush Resistance	N/(100mm)	2000	2000	2000	





Setting the Standards

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