

Horizontal Cabling Fibre To The Desk



TrueNet® Tight Buffered, Internal/External,
LSZH Duct Grade and Hybrid Cable 5.06

Horizontal Cabling

Fibre to the Desk

TrueNet® Tight Buffered, Internal/External, LSZH Duct Grade Cable

Features

- Outer sheath
 - Black, Low Smoke Zero Halogen (LSZH)
 - UV stabilised for outdoor applications
 - Sheath thickness 1.1mm
- Fire retardancy
 - 2 to 12 Cores IEC 60332-1 and 60332-3c
 - 16 to 24 Cores IEC 60332-1
- Aramid yarn – for added ‘crush’ protection to the optical cores
- Available with OM1, OM2, OM3, OM3e, and OS1 grade glass
- Hybrid MM and SM options available
- Covered by the TrueNet System Warranty



Ordering Information

Description	Catalogue Number*
Fibre Optic Cable, Tight Buffered, OM1 (62.5/125 µm) LSZH, Black	70xxLZHIOC062
Fibre Optic Cable, Tight Buffered, OM2 (50/125 µm) LSZH, Black	00xxLZHIOC050
Fibre Optic Cable, Tight Buffered, OM3 (50/125 µm) LSZH, Black	7023 3 229-xx
Fibre Optic Cable, Tight Buffered, OM3e (50/125 µm) LSZH, Black	7023 3 243-xx
Fibre Optic Cable, Tight Buffered, OS1 (9/125 µm) LSZH, Black	7023 3 228-xx

*Replace xx with the number of cores

TrueNet® Tight Buffered, Internal/External, LSZH Duct Grade Hybrid Cable

Ordering Information

Description	Catalogue Number
Fibre Optic Cable, Tight Buffered, 8F OM2, 4F OS1, LSZH, Black	7023 4 242-12
Fibre Optic Cable, Tight Buffered, 8F OM2, 6F OS1, LSZH, Black	7023 4 243-14
Fibre Optic Cable, Tight Buffered, 6F OM2, 6F OS1, LSZH, Black	7023 4 233-12
Fibre Optic Cable, Tight Buffered, 12F OM2, 6F OS1, LSZH, Black	7023 4 263-18
Fibre Optic Cable, Tight Buffered, 8F OM3, 4F OS1, LSZH, Black	7023 4 342-12
Fibre Optic Cable, Tight Buffered, 8F OM3, 6F OS1, LSZH, Black	7023 4 343-14
Fibre Optic Cable, Tight Buffered, 6F OM3, 6F OS1, LSZH, Black	7023 4 333-12
Fibre Optic Cable, Tight Buffered, 12F OM3, 6F OS1, LSZH, Black	7023 4 363-18

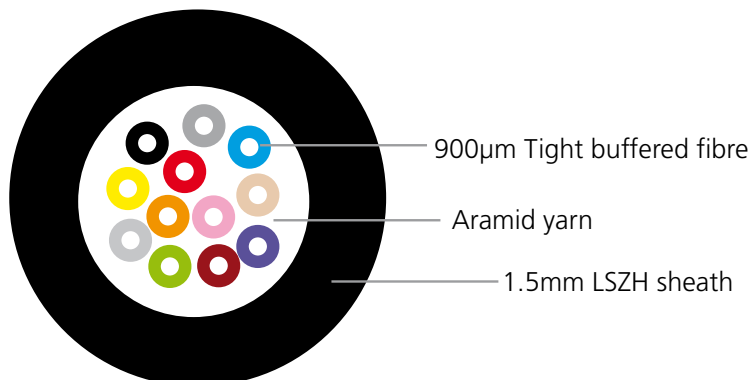
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Compliances

- ISO11801 OM1, OM2, OM3 or OS1 Channels
- IEC 60332-1 2 to 24 cores
- IEC 60332-3c 2 to 12 cores
- DIN/VDE: I-V (ZN) H 224
- Cenelec: HD 624.7 S1
- DIN/VDE 819 part 107
- RoHS

Applications

- Between main cross-connects and telecommunications room
- Horizontal cable runs from cross-connect to telecommunications room
- Areas requiring flame retardance and LSZH
- Horizontal and vertical cable runs from telecommunications rooms to consolidation points
- Outdoor ducts

Optical Performance

	Fibre Core Size	Maximum Attenuation (dB/km)	Typical Attenuation (dB/km)	Guaranteed Minimum Bandwidth (MHz-km)
Channel		850nm/1300nm	850nm/1300nm	850nm/1300nm
OM1	62.5/125	3.5/1.5	3.2/1.0	200 ¹ /600 ¹
OM2	50/125	3.5/1.5	2.7/0.8	500 ¹ /800 ¹
OM3 ³	50/125	3.5/1.5	2.7/0.8	2000 ² /500 ¹
OM3e ³	50/125	3.5/1.5	2.7/0.8	4700 ² /500 ¹
		1310nm/1550nm	1310nm/1550nm	1310nm/1550nm
Singlemode⁴	9/125	1.0/1.0	0.4/0.3	NA

¹ Bandwidth specified by overfilled launch (OFL)

² Bandwidth specified by laser-based launch

³ DMD Compliance TIA/EIA-492AAAC

⁴ Compliant to G652D

Cable Core

Each of the fibres is held in a 900µm tight buffered jacket. These fibres are bundled with aramid yarns to form a core.

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Transmission Performance – Guaranteed Minimum Link Lengths

	Fibre Core Size	Fast Ethernet 100Mbps	Gigabit Ethernet 1Gbps	10 Gigabit Ethernet 10Gbps
Channel		850nm/1300nm	850nm/1300nm	850nm/1300nm
OM1	62.5/125	300m/2km	330m/550m	35m/300m ¹
OM2	50/125	300m/2km	550m/550m	86m/300m ¹
OM3	50/125	300m/2km	900m/550m	300m/300m ¹
OM3e	50/125	300m/2km	1040m/550m	550m/300m ¹
		1310nm/1550nm	1310nm/1550nm	1310nm/1550nm
Singlemode	9/125	2km/NA	5km/NA	10km/40km

¹10 Gigabit Ethernet distance guarantees at 1300nm are achieved via four 3.125Gbps channels multiplexed with WWDM (Wide Wavelength Division Multiplexing) technology (10GBASE-LX4)

Cable Marking

The cable legend will be marked on the sheath as follows:
ADC TRUENET – XX – YY/125 – mmmm – ZZZZ – ZZZZ

Where,

XX = Fibre optic core count

YY = Glass type (e.g. 50/125)

mmm = Metre mark

ZZZZ – ZZZZ = Manufacturing lot data

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Mechanical Specifications

	Units	2	4	6	8	12	16	24
Number of Fibres								
Nominal Cable Diameter	mm	4.5	5	5.5	6	6.5	7	8.5
Nominal Cable Weight	Kg/km	25	30	30	40	45	50	80
Minimum Bend Radius Installed	mm	50	50	50	50	75	75	115
Minimum Bend Radius Loaded during Install	mm	100	100	100	100	100	130	230
Maximum Tensile Load (Installed)	N	280	280	280	340	340	340	340
Maximum Installation Load	N	1000	1000	1000	1200	1200	1200	1200
Impact	J (Nm)	20	20	20	20	20	20	20
Compressive Strength (Crush)	N/100mm	3000	3000	3000	3000	3000	3000	3000
Torsion	Cycles +/- 1 turn	5	5	5	5	5	5	5
Temperature Range (Operating and Installation)	°C	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70
Storage	°C	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70

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