

Tight Buffered Distribution Cable (4-24 Fibres)

Optronics tight buffered internal distribution cables are constructed of 900µm buffered fibres surrounded by e-glass strength members jacketed in an LSZH outer jacket.

Features/Benefits

- > Choice of fibre type
- > Colour coded fibres
- > High strength E-Glass rodent resistant yarn strength members
- > LSZH jacket
- > Easy to strip

Applications

- > Internal cable for installation in trunking, under floor or ceiling spaces
- > Fibre backbones in riser and horizontal configurations

Technical Specifications

DESCRIPTION		4-CORE LSZH	8-CORE LSZH	12-CORE LSZH	24-CORE LSZH
Outer Diameter	mm	4.8 ±0.3	5.8 ±0.3	6.5 ±0.3	7.5 ±0.3
Weight	kg/km	26	34	40	61
Max. Load (installation)	N	600	750	750	900
Max. Load (installed)	N	300	375	375	450
Min. Bend Radius (installation)	mm	96	116	130	150
Min. Bend Radius (installed)	mm	48	58	65	75
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance		1000	1000	1000	1000

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1TB**UBK-C/Z
OM2	OM2TB**UBK-C/Z
OM3	OM3TB**UBK-C/Z
OM4	OM4TB**UBK-C/Z
OS1/OS2	OS1TB**UBK-C/Z

Where ** is the fibre count between 4 & 24



Tight Buffered Distribution Cable Multi-core (36-96 Fibres)

36 to 96 fibre, stranded sub unit rodent resistant internal distribution cables consisting of 4 to 8, 12 fibre sub units and fillers when necessary. Each sub unit consists of 12, 900 µm tight buffered optical fibres with e-glass non-metallic strength members and LSZH jacket. The individually coloured 6mm outside diameter (OD) sub units are helically stranded around an FRP central strength member with polyester wrapping tape, ripcord and Low Smoke Zero Halogen (LSZH) final jacket.

Features/Benefits

- > Choice of fibre type
- > Colour coded fibres for easy identification
- > High strength aramid yarn strength members for ease of handling
- > Easy to use
- > Lightweight and compact
- > LSZH jacket

Applications

- > Internal cable for horizontal distribution or riser applications

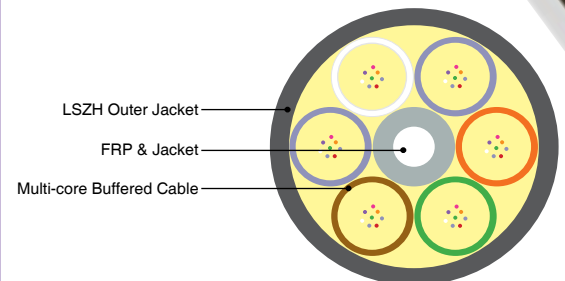
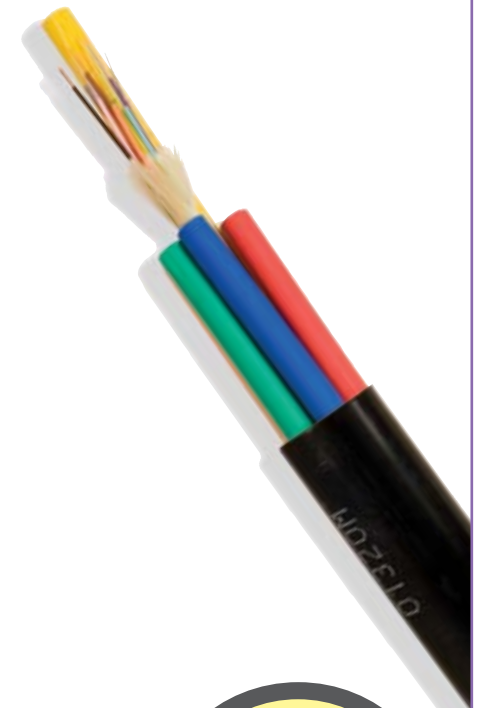
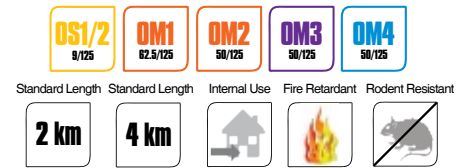
Technical Specifications

DESCRIPTION		36-CORE LSZH	48-CORE LSZH	72-CORE LSZH	96-CORE LSZH
Outer Diameter	mm	17.4 ±0.5	17.4 ±0.5	21.6 ±0.5	25.5 ±0.5
Weight	kg/km	237	237	397	571
Max. Load (installation)	N	2800	2800	4600	5000
Max. Load (installed)	N	1500	1500	2000	2200
Min. Bend Radius (installation)	mm	350	350	440	500
Min. Bend Radius (installed)	mm	175	175	220	250
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1500	1500	1500	1500

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1TBM**UBK-C/Z
OM2	OM2TBM**UBK-C/Z
OM3	OM3TBM**UBK-C/Z
OM4	OM4TBM**UBK-C/Z
OS1/OS2	OS1TBM**UBK-C/Z

Where ** is the fibre count between 36 & 96



Tight Buffered in Reelex Boxes (4 -12 Fibre)

4-12, 900µm, tight buffered internal Distribution cable with Eglass strength members and black LSZH jacket.

The distribution cables consist of OM1, OM2, OM3, OM4 & OS1 / OS2, 900µm tight buffered optical fibres with longitudinally applied E-glass rodent resistant non metallic strength members and a black low smoke zero halogen (LSZH) jacket with ripcord.

Features/Benefits

- > Colour coded fibres
- > E-glass strength members for rodent resistance and tensile strength
- > Robust 900 µm tight buffered fibres for ease of termination
- > Easy stripping
- > Metre marked black LSZH jacket for internal use

Applications

- > Internal cable for installation in trunking, under floor or ceiling spaces
- > Short run interconnect links
- > Fibre backbones in riser and horizontal configurations where rapid deployment is essential

Technical Specification (IEC 60794)

PARAMETER	UNIT	VALUE
Crush	N/100mm	1000
Strength member		E-glass
Storage temperature	°C	-20 to 60
Installation temperature	°C	-20 to 60
Operating temperature	°C	-20 to 60
Nominal cable weight	kg/km	34
Fibre count	n	8
Nominal outer diameter	mm	5.8±0.3
Maximum tensile load short term	N	750
Maximum tensile load long term	N	375
Minium bend radius - Installed	mm	60
Minium bend radius - Loaded	mm	120

Fibre Identification (IEC 60304)

No	1	2	3	4	5	6	7	8
Fibre	Blue	Orange	Green	Brown	Grey	White	Red	Black

No	9	10	11	12
Fibre	Yellow	Violet	Pink	Aqua

Fire Performance

Fire Test Description	Fire Test Specification
Smoke emission	IEC 61034-1 & 2
Flammability	IEC 60332-1
Acid gas emission	IEC 60754-1 & 2

Ordering Information

DESCRIPTION	PART NO.
OM1 62.5/125µm Multimode	
4 Core	OM104TB305LSZH
6 Core	OM106TB305LSZH
8 Core	OM108TB305LSZH
12 Core	OM112TB305LSZH
OM2 50/125µm Multimode	
4 Core	OM204TB305LSZH
6 Core	OM206TB305LSZH
8 Core	OM208TB305LSZH
12 Core	OM212TB305LSZH

DESCRIPTION	PART NO.
OM3 50/125µm Multimode	
4 Core	OM304TB305LSZH
6 Core	OM306TB305LSZH
8 Core	OM308TB305LSZH
12 Core	OM312TB305LSZH
OM4 50/125µm Multimode	
4 Core	OM404TB305LSZH
6 Core	OM406TB305LSZH
8 Core	OM408TB305LSZH
12 Core	OM412TB305LSZH

DESCRIPTION	PART NO.
OS1 / OS2 9/125µm Singlemode	
4 Core	OS104TB305LSZH
6 Core	OS106TB305LSZH
8 Core	OS108TB305LSZH
12 Core	OS112TB305LSZH



Breakout Fibre Optic Cable (4-24 Fibres)

Optronics breakout cables are constructed of up to 24, 2mm simplex cables stranded around a central strength member. Each simplex has its own aramid yarn strength member and jacket. These sub units are wrapped in a polyester tape and jacketed in LSZH.

Features/Benefits

- > Choice of fibre type
- > Individual high strength aramid yarn strength members for ease of handling
- > Easy to use
- > Lightweight and compact
- > LSZH jacket

Applications

- > Internal breakout cable.

Technical Specifications

DESCRIPTION		4 CORE LSZH	6 CORE LSZH	8 CORE LSZH	12 CORE LSZH	24 CORE LSZH
Outer Diameter	mm	7.0	8.2	9.4	11.8	14.1
Weight	kg/km	46	63	86	139	159
Max. Load (installation)	N	500	1000	1100	1400	2300
Max. Load (installed)	N	270	600	700	800	1100
Min. Bend Radius (installation)	mm	140	160	190	240	280
Min. Bend Radius (installed)	mm	70	80	95	120	140
Fire Performance					LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000	1000	1000	1000

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1BO**UOR-C/Z
OM2	OM2BO**UOR-C/Z
OM3	OM3BO**UAQ-C/Z
OM4	OM4BO**UAQ-C/Z
OS1/OS2	OS1BO**UYE-C/Z

Where ** is the fibre count between 4 & 24
Other diameters are available upon request.

