

# Universal distribution tight buffered cables



**LS0H**

INDOOR  
OUTDOOR

**GRP**

## features

- fully dielectric and gel-free construction, halogen-free sheath
- tensile elements made of glass yarns
- primary protection of 250 μm, tight buffered secondary protection of 900 μm
- suitable for outdoor as well as for indoor environment
- resistant to moisture, water and UV radiation
- partial rodent protection (glass rodent protection - GRP)
- compliant with the requirements for fire prevention arrangements in buildings with higher concentration of people

### 4 fibers

P/N: <b>TB004M6</b>	OM1 multimode 62,5/125 μm
P/N: <b>TB004M5</b>	OM2 multimode 50/125 μm
P/N: <b>TB004MOM3</b>	OM3 multimode 50/125 μm
P/N: <b>TB004MOM4</b>	OM4 multimode 50/125 μm
P/N: <b>TB004SM</b>	OS2 singlemode 9/125 μm (ITU-T G.652.D)

**OM1**  
multimode

**OM2**  
multimode

**OM3**  
multimode

**OM4**  
multimode

**OS2**  
singlemode

### 8 fibers

P/N: <b>TB008M6</b>	OM1 multimode 62,5/125 μm
P/N: <b>TB008M5</b>	OM2 multimode 50/125 μm
P/N: <b>TB008MOM3</b>	OM3 multimode 50/125 μm
P/N: <b>TB008MOM4</b>	OM4 multimode 50/125 μm
P/N: <b>TB008SM</b>	OS2 singlemode 9/125 μm (ITU-T G.652.D)

**OM1**  
multimode

**OM2**  
multimode

**OM3**  
multimode

**OM4**  
multimode

**OS2**  
singlemode

### 12 fibers

P/N: <b>TB012M6</b>	OM1 multimode 62,5/125 μm
P/N: <b>TB012M5</b>	OM2 multimode 50/125 μm
P/N: <b>TB012MOM3</b>	OM3 multimode 50/125 μm
P/N: <b>TB012MOM4</b>	OM4 multimode 50/125 μm
P/N: <b>TB012SM</b>	OS2 singlemode 9/125 μm (ITU-T G.652.D)

**OM1**  
multimode

**OM2**  
multimode

**OM3**  
multimode

**OM4**  
multimode

**OS2**  
singlemode

### 24 fibers

P/N: <b>TB024M6</b>	OM1 multimode 62,5/125 μm
P/N: <b>TB024M5</b>	OM2 multimode 50/125 μm
P/N: <b>TB024MOM3</b>	OM3 multimode 50/125 μm
P/N: <b>TB024MOM4</b>	OM4 multimode 50/125 μm
P/N: <b>TB024SM</b>	OS2 singlemode 9/125 μm (ITU-T G.652.D)

**OM1**  
multimode

**OM2**  
multimode

**OM3**  
multimode

**OM4**  
multimode

**OS2**  
singlemode

**mechanical properties**

number of fibres		4	8	12	24
Nominal cable diameter		5,0 mm	5,9 mm	6,5 mm	8,3 mm
Nominal sheath thickness		1,1 mm	1,1 mm	1,1 mm	1,1 mm
Cable weight netto		25 kg/km	34 kg/km	41 kg/km	62 kg/km
Min. bending radius	installation	75 mm	89 mm	98 mm	125 mm
	operation	50 mm	59 mm	65 mm	83 mm
Tensile strength	installation	1000 N	1100 N	1100 N	1500 N
	operation	400 N	500 N	500 N	500 N
Impact		15 J (Nm)			
Compressive strength		2000 N/100 mm			
Temperature range	installation	-15°C to 60°C			
	operation	-20°C to 60°C			
Properties in case of fire		IEC 60332-1 / EN 50265			
		IEC 61034 / EN 50268			
		IEC 60754-2 / EN 50267			

**fibre properties**

Cabled optical fibre (ISO/IEC 11801)	OM1	OM2	OM3	OM4	OS2
IEC 60793-2	10-A1b	10-A1a.1	10-A1a.2	10-A1a.3	50-B1.3
ITU-T	-	G.651.1	-	-	G.652D
Attenuation @ 850 / 1300 nm (dB/km)	≤ 3,2 / ≤ 0,8	≤ 2,8 / ≤ 0,8	≤ 2,8 / ≤ 0,8	≤ 2,8 / ≤ 0,8	-
Bandwidth (850 / 1300 nm)	≥ 200 / ≥ 500	≥ 500 / ≥ 800	≥ 1500 / ≥ 500	≥ 3500 / ≥ 500	-
EMBc @ 850 (MHz.km)	-	-	≥ 2000	≥ 4700	-
Attenuation @ 1310 / 1550 nm (dB/km)	-	-	-	-	≤ 0,38 / ≤ 0,25
Dispersion@ 1310 / 1550 nm (ps/nm.km)	-	-	-	-	≤ 3,5 / ≤ 18
Numerical Aperture	0,275 +/- 2	0,200 +/- 0,015	0,200 +/- 0,015	0,200 +/- 0,015	-
Refractive index @ 850 / 1300 nm	1,496 / 1,491	1,482 / 1,477	1,482	1,482	-
Refractive index @ 1310 / 1550 nm	-	-	1,477	1,477	1,467/1,468
Core diameter (µm)	62,5 +/- 2	50 +/- 2	50 +/- 2	50 +/- 2	-
MFD (µm)	-	-	-	-	9,0
Core / cladding concentricity error (µm)	≤ 1	≤ 1	≤ 1	≤ 1	≤ 0,6
Overall coating diameter (µm)	245 +/- 10	245 +/- 10	245 +/- 10	245 +/- 10	245 +/- 10