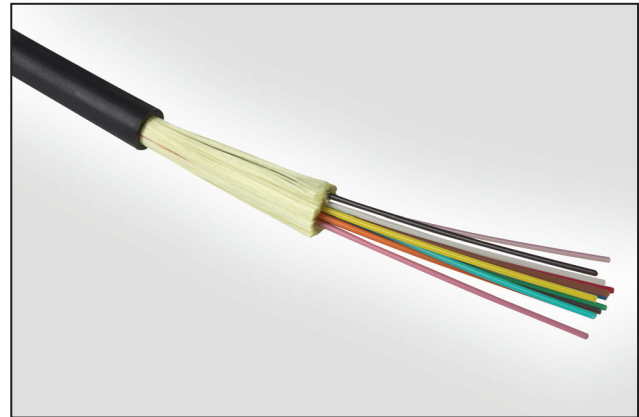


## G652D OS2 Single Mode

### Tight Buffered

#### Application/Product Description

HellermannTyton Category OS2 cables are designed and tested to support LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections as well as fibre to the home drop and access connections. The LS0H sheath allows for cables to be used in both internal dry installation and damp environments and is equally suited for installation in ducts and on trays.



OS2 Tight Buffered Fibre Cable



#### Cable Standards

- ISO 11801 2<sup>nd</sup> edition
- EN 187 000
- IEC 60794-2
- EN 50 173-1
- IEC 60794 - 2 -20

#### Transmission Performance

Optical Performance	Units	Specification
Attenuation	dB/km	≤0.40 at 1310nm
		≤0.40 at 1383nm
		≤0.30 at 1550nm
Chromatic Dispersion	ps/nm <sup>2</sup> .km	≤3.5 at 1285 - 1330nm
		≤18 at 1550nm
Zero Dispersion Wavelength	nm	1300 – 1322
Zero Dispersion Slope	ps/nm <sup>2</sup> .km	≤0.092
Cable PMD (PMDQ)	ps/√km	≤0.2 (20 section link)
Cut-off Wavelength (lcc, Cabled Fibre)	nm	≤1260
Mode Field Diameter	μm	9.2 ± 0.4 at 1310nm
		10.4 ± 1.0 at 1550nm
Macrobending Loss (Attenuation vs Bending (30mm radius x 100 turns))	dB	≤0.1 at 1625nm

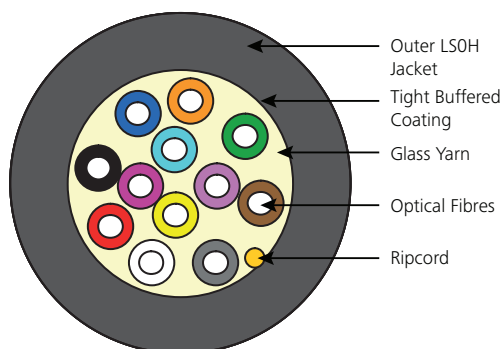
Geometrical Data	Units	Specification
Core/Cladding Concentricity Error	μm	≤0.6
Cladding Diameter	μm	125 ± 1.0
Cladding Non-circularity	%	≤1.0
Coating Diameter	μm	245 ± 10
Proof Test	Gpa	≥0.69

Environmental Data		Specification
Crush Resistance (N)		2000
Impact Resistance (Nm)		10
Temperature °C	Operation	-40 to +70
	Installation	-20 to +70
	Storage	-40 to +70
Water Penetration		No leakage through the open cable end
Flame Resistance		EN 50399: Class Ccas1d1a1, Class Dca, Class Eca
		LSHF-FR (LSOH-FR): IEC60332-1-2; IEC 60332-3-24, IEC 60754-2; IEC 61034

Mechanical Data	Specification	
	12 Core	24 Core
Nominal Outer Diameter (mm)	7.8	9.3
Nominal Weight (kg/km)	53.0	76
Minimum Bend Radius (mm)	78	93

\*Actual Values for cable weight and diameter may deviate from the values given in the table above.

#### Cable Construction



Cable Construction		
Number of Fibres		12 or 24
Type of Fibre		PVC
Strength Member		Glass Yarn
Outer Jacket	Material	LSOH
	Thickness	900 ± 50µm

No. of Fibre	Colour	No. of Fibre	Colour
1	Blue	13	Blue/Black Dash every 70mm
2	Orange	14	Orange/Black Dash every 70mm
3	Green	15	Green/Black Dash every 70mm
4	Brown	16	Brown/Black Dash every 70mm
5	Grey	17	Grey/Black Dash every 70mm
6	White	18	White/Black Dash every 70mm
7	Red	19	Red/Black Dash every 70mm
8	Black	20	Black/White Dash every 70mm
9	Yellow	21	Yellow/Black Dash every 70mm
10	Violet	22	Violet/Black Dash every 70mm
11	Pink	23	Pink/Black Dash every 70mm
12	Aqua	24	Aqua/Black Dash every 70mm