

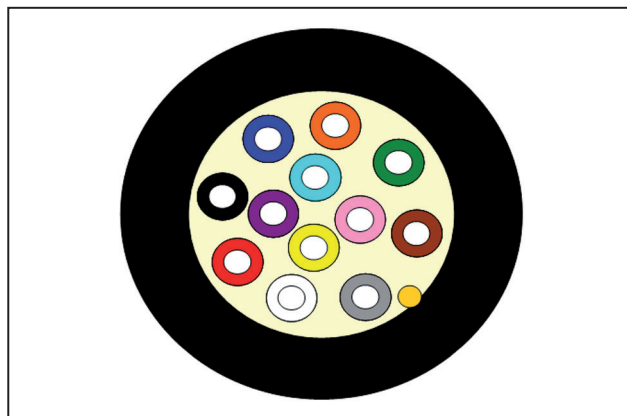


G652D OS1 Tight Buffered

Bulk Fibre Cable

Application/Product Description

HellermannTyton Category OS1 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.



OS1 Tight Buffered Fibre Cable

Cable Standards

Cable

- ISO 11801:2002 (inc. Amend. A1 & A2)
- BS EN 50173-1:2002
- IEC 60794-1
- ITU-T G.652D (OS2)
- IEC 60793-2-50 Amend. B1.3

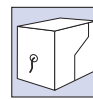
Cable Sheath

- IEC 60332-1
- IEC 60754-2
- IEC 61034-2

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 ² .km	≤3.5 at 1285 - 1330nm
		≤18 at 1550nm
Zero Dispersion Wavelength	nm	1300 – 1322
Zero Dispersion Slope	ps/nm ² .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

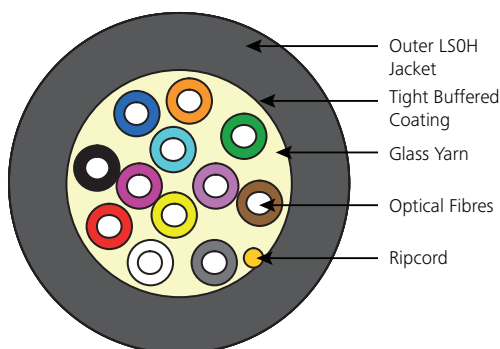


Environmental Data		Specification
Crush Resistance (N)		1100
Impact Resistance (Nm)		10
Temperature °C	Operation	-20 to +70
	Installation	-20 to +60
	Storage	-20 to +75
Water Penetration		No leakage through the open cable end
Flammability		IEC 60332-1

Mechanical Data		Specification	
		12 Core	24 Core
Nominal Outer Diameter (mm)		6.7	9.8
Nominal Weight (kg/km)		50.0	85
Minimum Bend Radius (mm)	Under Load	105	150
	No Load	70	100

*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	LS0H
	Thickness	900 ± 50µm

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