

G652D OS1 Loose Tube

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 LSOH 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 Loose Tube 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

Transmission Performance

Cable Sheath

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

	specification
dB/km	≤0.36 at 1310nm
	≤0.35 at 1383nm
	≤0.22 at 1550nm
ps/nm2.km	≤3.5 at 1285 - 1330nm
	≤18 at 1550nm
nm	1300 – 1322
ps/nm2.km	≤0.092
ps/√km	≤0.2 (20 section link)
nm	≤1260
μm	9.2 ± 0.4 at 1310nm
	10.4 ± at 1550nm
dB	≤0.1 at 1625nm
	dB/km ps/nm2.km nm ps/nm2.km ps/√km nm μm dB

Geometrical Data	Units	Specification
Core/Cladding Concentricity Error	μm	≤0.6
Cladding Diameter	μm	125 ± 1
Cladding Non-circularity	%	≤1.0
Coating Diameter	μm	245 ± 10
Proof Test	Gpa	≥0.69



Environmental Data Crush Resistance (N) Impact Resistance (Nm)		Specification
		1100
		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

Cable Construction

Nominal Outer Diameter (mm)

Minimum Bend Radius (mm)

Nominal Weight (kg/km)



Outer LSOH Jacket Loose Tube Thixotropic Jelly Compound Optical Fibres

Under Load

No Load

Ripcord Glass Yarn (outer strength member)

		1	
Cable Construction			
Number of Fibres		12 or 24	
Loose Buffer Tube		PBT (Polybutylene Terephthalate)	
Filling Compound in Central Tube		Thixotropic Jelly Compound	
Strength Member		Glass Yarn	
Outer Jacket	Material	LSOH	
	Thickness	Minimum nominal 1.0mm	

6.0

53.0

138

69

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

* Single Dot Marking



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