

## OM3 Multimode

### Tight Buffered

#### Application/Product Description

HellermannTyton Category OM3 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.

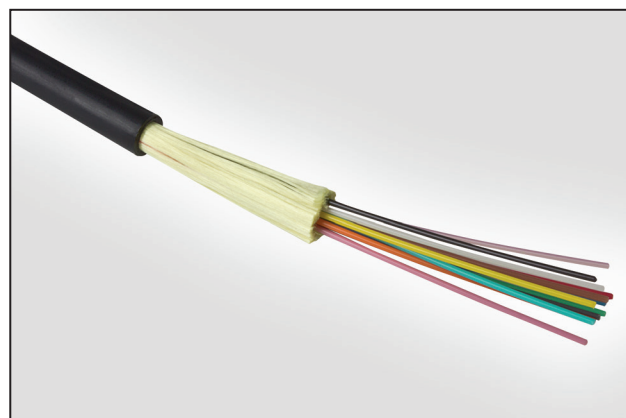
#### Cable Standards

##### Cable

- ISO 11801:2002 (inc. Amend. A1 & A2)
- BS EN 50173-1:2002
- IEC 60794-1
- IEC 60793-2-10 A1a.2 & A1a.3

##### Cable Sheath

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



OM3 Tight Buffered Fibre Cable



#### Transmission Performance

Optical Performance	Units	Specification
Attenuation	dB/km	≤0.3 at 850nm
		≤1.0 at 1300nm
Bandwidth (Overfilled Launch LED based sources)	MHz.km	≥1500 at 850nm
		≥500 at 1300nm
Effective Modal Bandwidth (Laser based sources)	MHz.km	≥2000 at 850nm
Transmission Link Length for 10Gbps	m	≥300 at 850nm

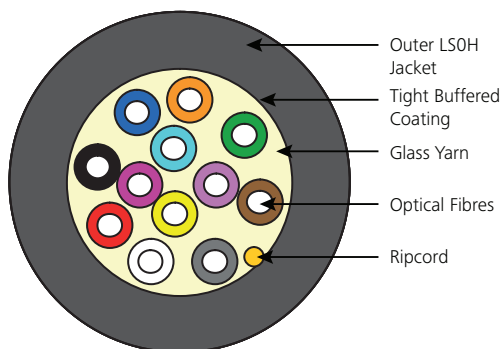
Geometrical Data	Units	Specification
Numerical Aperture	-	0.20 ± 0.015
Core Diameter	µm	50 ± 3.0
Core Non-circularity	%	≤6.0
Cladding Diameter	µm	125 ± 2.0
Cladding Non-circularity	%	≤2.0
Core/Cladding Concentricity Error	µm	≤3.0
Coating Diameter	µm	245 ± 15
Proof Test	Gpa	≥0.69

Environmental Data		Specification			
		4 Core	8 Core	12 Core	24 Core
Crush Resistance (N)		500			1000
Impact Resistance (Nm)		5			10
Temperature °C	Operation	-20 to +70			
	Installation	-20 to +70			
	Storage	-40 to +75			
Water Penetration		No leakage through the open cable end			
Flammability		IEC 60332-1			

Mechanical Data		Specification			
		4 Core	8 Core	12 Core	24 Core
Nominal Outer Diameter (mm)		5.3	6.0	6.7	9.8
Nominal Weight (kg/km)		30	40	50	85
Minimum Bend Radius (mm)	Under Load	85	90	105	150
	No Load	55	60	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		4, 8, 12 and 24
Type of Fibre		50 Micron
Filling Compound in Central Tube		PVC
Strength Member		Glass Yarn
Outer Jacket	Material	LS0H

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