# HellermannTyton



## **OM4 Multimode**

**Tight Buffered** 

## Application/Product Description

HellermannTyton Category OM4 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.

### Cable Standards

#### Cable

Cable Sheath

- ISO 11801:2002 (inc. Amend.
  IEC 60332-1
  IEC 60754-2
  IEC 60754-2
  - IEC 60754-2IEC 61034-2
- BS EN 50173-1:2002IEC 60794-1
- IEC 60793-2-10 A1a.2 & A1a.3

#### **Transmission Performance**

Optical Performance	Units	Specification
A +++	dB/km	≤0.3 at 850nm
Attenuation		≤1.0 at 1300nm
	MHz.km	≥3500 at 850nm
Bandwidth (Overnied Laurich Leb based sources)		≥500 at 1300nm
Effective Modal Bandwidth (Laser based sources)	MHz.km	≥4700 at 850nm
Transmission Link Length for 10Gbps	m	≥550 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		
		12 Core		24 Core
Crush Resistance (N)		750		750
Impact Resistance (Nm)		10 10		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 Cca,s1a,d1,a1, Class Dca, Class Eca	
		LSHF-FR (LSOH-FR):	IEC60332-1-2; IEC 60332-3-24, IEC 60754-2; IEC 61034	



OM4 Tight Buffered Fibre Cable



DS-CA-OM4-TB-R10



Mechanical Data	Specification		
	12 Core	24 Core	
Nominal Outer Diameter (mm)	7.8	9.3	
Nominal Weight (kg/km)	53	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 and 24
Type of Fibre		50 Micron
Filling Compound in Central Tube		PVC
Strength Member		Glass Yarn
Outer Jacket	Material	LSOH

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

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