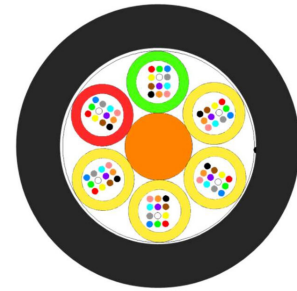
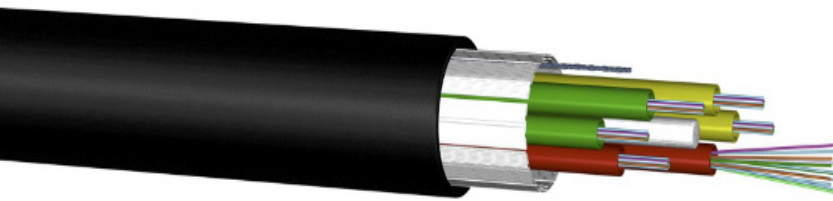


## Universal Standard Loose Tube Singlemode Cable up to 288 Fibres



Universal loose tube optical fibre cables have been designed specifically for internal and external applications. These compact cables are extremely flexible and are quick and easy to install. The outer jacket is Flame Retardant, Low Smoke Zero Halogen.

### Features

- Sequentially Metre Marked
- Internal/External Grade
- LSOH Black Sheath
- Duct Grade
- CPR compliant to Eca
- Cut to length service

### Standards

EN 187 000, IEC 60794-2, IEC 60794-2-20, IEC 60794-2-21,  
ISO 11801-1, EN 50173-1

### Flame Resistance

LSHF: IEC 60332-1-2; IEC 60754-1; IEC 60754-2; IEC 61034-2; Class Eca

### Construction

Central Strength Member	Ø 2.5mm FRP Rod			
Fibre Colour Code	1	Red	7	Brown
	2	Green	8	Violet
	3	Blue	9	Turquoise
	4	Yellow	10	Black
	5	White	11	Orange
	6	Grey	12	Pink
Loose Tube	Ø2.3mm gel-filled loose tubes Up to 12 fibres/tube for ≤ 144 fibres, 24 fibres/tube for > 144 fibres Up to 12 tubes in one layer, for lay-up refer to B04			
Water Blocking	The core is water blocked using swelling tape and thread			
Wrapping	Polyester non-woven			
Ripcord	Polyester ripcord for easy slitting of the sheath			
Sheath	1.5mm black halogen free. Flame resistant thermoplastic sheathing compound according to EN 50290-2-27, UV stabilised			
Print Legend	<b>EXAMPLE:</b> *METRE MARKED* - FASTFIBRE OPTICAL FIBRE CABLE MLTS248BKLSZHEF 48 FIBRE MLT OS2 9/125 ECA *BATCH NUMBER* *WEEK/YEAR*			

## Universal Standard Loose Tube Singlemode Cable up to 288 Fibres

### Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits							
Fibre Count	-	12	48	72	96	120	144	192	288
Fibre Distribution		1x12f	4x12f	6x12f	8x12f	10x12f	12x12f	8x24f	12x24f
Nominal Diameter [mm]	-	10.5	10.5	10.5	12.0	13.5	15.0	12.0	15.0
Nominal Weight [kg/km]	-	85	88	90	125	155	190	195	210
Short Term Tensile Strength [N]	E1	1800 (fibre strain ≤ 0.5%)							
Permanent Tensile Strength [N]	E1	1200 (fibre strain ≤ 0.25%)							
Crush (compressive strength) [N/100 mm]	E3	3000							
Impact [J]	E4	20							
Torsion	E7	5 cycles ± 1 Turn							
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter							
Minimum bending Radius [mm] - short term	E11	105	105	105	120	135	150	120	150
Minimum bending Radius [mm] - Permanent		210	210	210	240	270	300	240	300
Temperature Range	F1	Installation				-40°C to 70°C			
		Operation *)				-40°C to 70°C			
		Storage				-40°C to 70°C			
Water Penetration	F5	No water on free end							
Heat of Combustion	[MJ/km]	-	1900	2600	3400	4300			
	[KWh/m]		0.53	0.72	0.94	1.19			

### Ordering Information

Part Number	Description
MLTS248BLKLSZHEF	Internal/External Loose Tube Fibre Cable 48 Core OS2

Contact us at: [sales@matrixgn.com](mailto:sales@matrixgn.com)

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