

MLA Optical Twin Sheath Steel Tape Armoured Multi Loose Tube Cables

Datasheet: GD102846v1

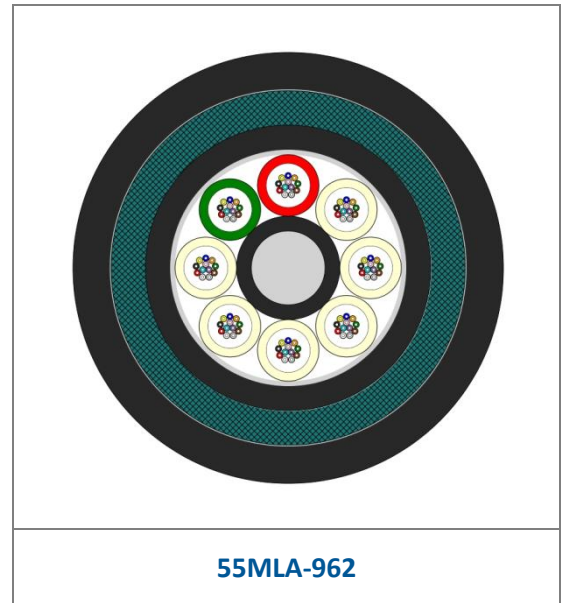
APPLICATION

The MLA Twin Sheath Steel Tape Armoured Multi-Loose Tube Cable family offers up to 216 fibres. The range has been designed to offer enhanced mechanical properties over the Duct Grade Multi Loose Tube product range.

MLA Twin Sheath Steel Tape Armoured Multi-Loose Tube Cables are suitable for high fibre count direct burial applications and other campus backbone environments where the cable may be subject to mechanical crush and impact.

FEATURES AND BENEFITS

- 12-216 Fibre Counts - up to 12 fibres per tube colour coded according to TIA-598-C
- Customisable Fibre Selection - single-mode, multi-mode and hybrid versions to suit a variety of applications
- Resin Bonded Glass Central Strength Member - for a flexible design with a high strength to weight ratio
- Stranded Gel Filled Loose Tubes - with red and green marker reference for simplified tube identification
- Corrugated Steel Tape Armour – for superior mechanical crush and impact resistance and optimum rodent protection
- Twin Polyethylene Sheath Design – offering additional mechanical protection and installation options
- Included in the Leviton and Brand-Rex 25 Year System Warranties when used in conjunction with Leviton or Brand-Rex fibre connectivity. System warranties available for qualified projects installed by certified contractors.



STANDARDS

Applicable Cable Standards: ISO/IEC 11801, IEC 60794

Test Standards: IEC 60794-1-21 and IEC 60794-1-22

FIBRE IDENTIFICATION

Fibre Identifier	SM	50	5L	55
IEC 60793 Reference	2-50-B1.3	2-10-A1a.1	2-10-A1a.2	2-10-A1a.3
ITU-T Recommendation	G.652.D	G.651.1	G.651.1	G.651.1
ISO/IEC 11801 Category	OS2	OM2	OM3	OM4

MATERIAL IDENTIFICATION

Material Description	LLDPE
Flammability Rating	n/a – External Only
Smoke Emission	n/a – External Only
Acid Gas Emission	n/a – External Only
Colour	Black

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PHYSICAL CHARACTERISTICS

Fibre Count	No. Elements (Tubes/Fillers)	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)	Nom. Cable Weight <i>M</i> (kg/km)
12-72	6	2.5	15.4	214
84-96	8		17.5	257
108-144	12		20.6	354
156-216	18		20.6	351

MECHANICAL PERFORMANCE

Fibre Count	Max. Long Term Load (N)	Max. Short Term Load (N)	Min. Static Bend (mm)	Min. Dynamic Bend (mm)	Max. Crush (N)	Max. Impact (Nm)	Max. Torsion (Turns $\pm 180^\circ$)
12-216	600	2000	10 x Cable Diameter	15 x Cable Diameter	5000	20	5

TEMPERATURE PERFORMANCE

Fibre Count	Operational Temperature Range	Storage Temperature Range	Installation Temperature Range
12-216	-40°C to + 70°C	-40°C to + 70°C	-10°C to + 70°C

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Brand-Rex | a **LEVITON**
company

PRINT LEGEND

Example print legend:

[Length Mark]m LEVITON 55MLA-962 BRAND-REX HFOM4S96WNNMSTANM PE 96 FIBRE 50/125 OM4 MADE IN UK [ID number]
[Week/Year]

PACKAGING INFO

Fibre Count	Reel Size (flange x width mm)		Gross Weight (kg/reel)		Reels per Pallet	
	2km	4km	2km	4km	2km	4km
12-72	1400 x 800	n/a	611	n/a	1	n/a
84-96	1400 x 800	n/a	697	n/a	1	n/a
108-144	1700 x 915	n/a	1021	n/a	<i>non-palletised</i>	n/a
156-216	1700 x 915	n/a	1015	n/a	<i>non-palletised</i>	n/a

PART NUMBER CONFIGURATOR

a - MLA - b - c

a = Fibre Identifier
e.g. "**5L**" for OM3 fibre

b = 2 digit fibre count
e.g. "**48**" for 48 fibre cable

c = Length
e.g. "**2**" for 2km Spool

Example part number: 5LMLA-482.

*"Brand-Rex is dedicated to designing, developing and manufacturing
sustainable **high performance** structured cabling and speciality **cabling solutions**"*

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