

Optical Glass Yarn Armoured Unitube Cables

Datasheet: GD101993v5

Brand-Rex a **LEVITON** company

APPLICATION

The Brand-Rex Glass Yarn Armoured Unitube Cable family offers up to 24 fibres in a compact cable construction. The range offers enhanced rodent protection and mechanical properties over the Duct Grade Unitube product range.

The Brand-Rex Glass Yarn Armoured Unitube Cables are suitable for internal/external duct and internal cable tray installations in building and campus backbone applications.

FEATURES AND BENEFITS

- 2-24 Fibre Counts - colour coded according to TIA-598-C
- Customisable Fibre Selection - Single-Mode, Multi-Mode and hybrid versions to suit a variety of applications
- Single Gel Filled Loose Tube – to block the ingress of water
- Glass Yarn Armouring - to offer higher strength and enhanced rodent protection
- Available in a Range of Sheath Materials – to suit a variety of installation environments
- Included in the Leviton and Brand-Rex 25 Year System Warranties when used in conjunction with Leviton or Brand-Rex connectivity. System warranties available for qualified projects installed by certified contractors.



STANDARDS

Applicable Cable Standards: ISO/IEC 11801, IEC 60794 and BS EN 50173-1

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

Water Penetration: IEC 60794 -1-22-F5C

FIBRE IDENTIFICATION

Fibre Identifier*	008	108	208	062	050	OM3	OM4
IEC 60793 Reference	2-50-B1.3	2-50-B6_a	2-50-B6_a	2-10-A1b	2-10-A1a.1	2-10-A1a.2	2-10-A1a.3
ITU-T Recommendation	G.652.D	G.657.A1	G.657.A2	n/a	G.651.1	G.651.1	G.651.1
ISO/IEC 11801 Category	OS1/OS2	OS1/OS2	OS1/OS2	OM1	OM2	OM3	OM4

MATERIAL IDENTIFICATION

Material Identifier**	LU	LUHF3	NM
Material Description	Standard HFFR-LS [†]	Enhanced HFFR-LS	PE - Polyethylene
Flammability Rating	IEC 60332-1-2	IEC 60332-3-24	n/a – External Only
Smoke Emission	IEC 61034-1 & 2	IEC 61034-1 & 2	n/a – External Only
Acid Gas Emission	IEC 60754-2	IEC 60754-2	n/a – External Only
Colour	Black	Black	Black

[†] Halogen Free Flame Retardant – Low Smoke

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PHYSICAL CHARACTERISTICS

Fibre Count	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)			Nom. Cable Weight (kg/km)		
		LU	LUHF3	NM	LU	LUHF3	NM
2-12	2.9	7.4	7.4	7.4	63	64	50
16-24	4.0	8.1	8.1	8.1	73	75	58

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 $\pm 180^\circ$)
2-12	628	2800	10 x Cable Diameter	15 x Cable Diameter	2000	5	5
16-24	736						

TEMPERATURE PERFORMANCE

Fibre Count	Operational Temperature Range	Storage Temperature Range	Installation Temperature Range
2-24	-20°C to + 60°C	-20°C to + 60°C	-10°C to + 60°C

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PRINT LEGEND

Example print legend:

[Length Mark]m BRAND-REX a LEVITON company OPTICAL FIBRE CABLE GFOM4UNI24RRLU 24 FIBRE 50/125 OM4 IEC 60332-1-2 MADE IN UK [ID number] [Week/Year]

PACKAGING INFO

Fibre Count	Material Identifier	Reel Size (flange x width mm)		Gross Weight (kg/reel)		Reels per Pallet	
		2km	4km	2km	4km	2km	4km
2-12	LU	915 x 460	1070 x 510	148	357	2	2
	LUHF3	915 x 460	1070 x 510	151	290	2	2
	NM	915 x 460	1070 x 510	122	231	2	2
16-24	LU	915 x 460	1070 x 510	168	323	2	2
	LUHF3	915 x 460	1070 x 510	172	331	2	2
	NM	915 x 460	1070 x 510	139	265	2	2

PART NUMBER CONFIGURATOR

a - b - UNI - c - RR - d

a = **GF** for standard design
EF for Enhanced LSHF

b = Fibre Identifier*
e.g. "**008**" for G.652.D fibre

c = 2 digit fibre count
e.g. "**02**" for 2 fibre cable

d = Material Identifier**
e.g. "**LU**" for standard LSHF

Example part number: GFOM4UNI24RRLU.

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

The information contained in this document is valid and correct at the time of issue. Brand-Rex reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.