

Optical Twin Sheath Steel Tape Armoured Unitube Cables

Datasheet: GD102221v3

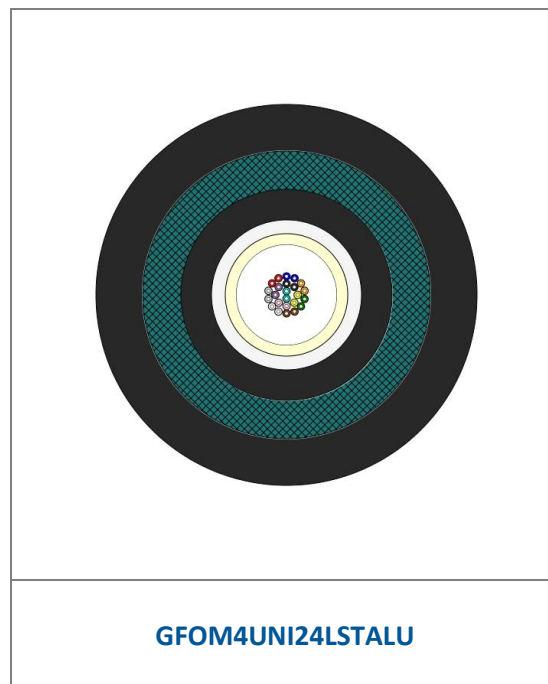
APPLICATION

The Brand-Rex Twin Sheath Steel Tape Armoured Unitube Cable family offers up to 24 fibres in a compact cable construction. The range has been designed to offer enhanced mechanical properties over the Duct Grade Unitube product range.

The Twin Sheath Steel Tape Armoured Unitube is suitable for direct burial applications and other campus backbone environments where the cable may be subject to mechanical crush and impact.

FEATURES AND BENEFITS

- 2-24 Fibre Counts - colour coded according to TIA-598-D
- 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
- Corrugated Steel Tape Armour – for superior mechanical crush and impact resistance and optimum rodent protection
- Twin Sheath Design – offering additional mechanical protection and installation options
- Available in a Range of Sheath Materials – to suit a variety of installation environments
- HFFR-LS versions meet the requirements of the Construction Products Regulation (CPR) Euroclass Eca
- 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 (*up to inner sheath only*)

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
Fire Euroclass EN13501-6	Eca	Eca	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
2-12	2.9	11.4	158	162	126
16-24	4.0	12.4	182	186	145

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 $\pm 180^\circ$)
2-24	300	1000	10 x Cable Diameter	15 x Cable Diameter	5000	20	5

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 GFOM4UNI24LSTALU-
Eca 24 FIBRE 50/125 OM4 IEC 60332-1-2 Euroclass Eca 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	1200 x 1200 x 690	1400 x 1400 x 800	453	815	1	1
	LUHF3	1200 x 1200 x 690	1400 x 1400 x 800	461	830	1	1
	NM	1200 x 1200 x 690	1400 x 1400 x 800	389	686	1	1
16-24	LU	1200 x 1200 x 690	1400 x 1400 x 800	500	908	1	1
	LUHF3	1200 x 1200 x 690	1400 x 1400 x 800	509	925	1	1
	NM	1200 x 1200 x 690	1400 x 1400 x 800	426	761	1	1

PART NUMBER CONFIGURATOR

a - b - UNI - c - d₁ - STA - d₂ - Eca

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: GFOM4UNI24LSTALU-Eca.

*"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.