

## APPLICATION

The Brand-Rex 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 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-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 - in the form of high tensile yarns to offer strength
- Corrugated Steel Tape Armour – for superior mechanical crush and impact resistance and optimum rodent protection
- Available in a Range of Sheath Materials – to suit a variety of installation environments
- Included in the Brand-Rex 25 Year System Warranty - when used in conjunction with Brand-Rex fibre connectivity



## 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

## 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 <sup>†</sup>	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

<sup>†</sup> Halogen Free Flame Retardant – Low Smoke

# Optical Steel Tape Armoured Unitube Cables

Datasheet: GD102133v1



## PHYSICAL CHARACTERISTICS

Fibre Count	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)		
			LU	LUHF3	NM
2-24	4.0	10.4	128	131	107

## 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	4000	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 OPTICAL FIBRE CABLE GFOM4UNI24STALU Made in the 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
2-24	<b>LU</b>	1200 x 1200 x 690	1400 x 1400 x 800	393	695	1	1
	<b>LUHF3</b>	1200 x 1200 x 690	1400 x 1400 x 800	398	704	1	1
	<b>NM</b>	1200 x 1200 x 690	1400 x 1400 x 800	350	609	1	1

## PART NUMBER CONFIGURATOR

**a - b - UNI - c - STA - 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: GFOM4UNI24STALU.

*"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.