

# Optical Glass Yarn Armoured Multi Loose Tube Cables

Datasheet: GD102038v4

**Brand-Rex** a **LEVITON** company

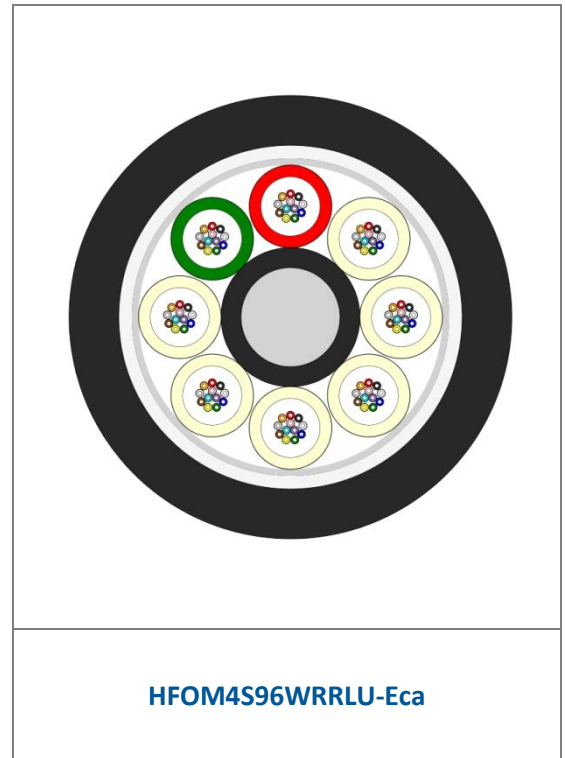
## APPLICATION

The Brand-Rex Glass Yarn Armoured Multi-Loose Tube Cable family offers up to 216 fibres. The range offers enhanced rodent protection and mechanical properties over the Duct Grade Multi Loose Tube product range.

Brand-Rex Glass Yarn Armoured Multi-Loose Tube Cables are suitable for high fibre count internal/external duct and internal cable tray installations in building and campus backbone applications.

## FEATURES AND BENEFITS

- 12-216 Fibre Counts - up to 12 fibres per tube colour coded according to TIA-598-D
- 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
- Interstitially Dry Water Blocked Design - to prohibit the ingress of water throughout the cable length
- 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
- 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

## 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

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## 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
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

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

## PHYSICAL CHARACTERISTICS

Fibre Count	No. Elements (Tubes/Fillers)	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)	Nom. Cable Weight <i>M</i> (kg/km)		
				LU	LUHF3	NM
12-72	6	2.5	12.0	145	148	116
84-96	8		13.4	176	179	143
108-144	12		16.8	266	269	223
156-216	18		17.3	266	269	222

## 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 ± 180°)
12-216	1650	5500	10 x Cable Diameter	15 x Cable Diameter	2000	5	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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## PRINT LEGEND

Example print legend:

[Length Mark]m BRAND-REX a LEVITON company OPTICAL FIBRE CABLE HFOM4S96WRRU-  
Eca 96 FIBRE 50/125 OM4 IEC 60332-1-2 Euroclass Eca MADE IN UK [ID number] [Week/Year]

## PACKAGING INFO

Fibre Count	Reel Size (flange x width mm)		Gross Weight <sup>‡</sup> (kg/reel)		Reels per Pallet	
	2km	4km	2km	4km	2km	4km
12-72	1200 x 690	1400 x 800	2M + 137	2M + 183	1	1
84-96	1200 x 690	1700 x 915	2M + 137	2M + 313	1	non-palletised
108-144	1400 x 800	n/a	2M + 183	n/a	1	n/a
156-216	1400 x 800	n/a	2M + 183	n/a	1	n/a

<sup>‡</sup>Refer to nominal cable weight for *M*.

## PART NUMBER CONFIGURATOR

**a - b - S - c - WRR - d - Eca**

**a** = **GF** for 5 element design  
**HF** for standard design  
**EF** for Enhanced LSHF

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

**c** = 2 or 3 digit fibre count  
e.g. "02" for 2 fibre cable

**d** = Material Identifier\*\*  
e.g. "LU" for standard HFFR-LS

Example part number: HFOM4S96WRRU-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.