

# Optical Steel Tape Armoured Multi Loose Tube Cables

Datasheet: G102199v1



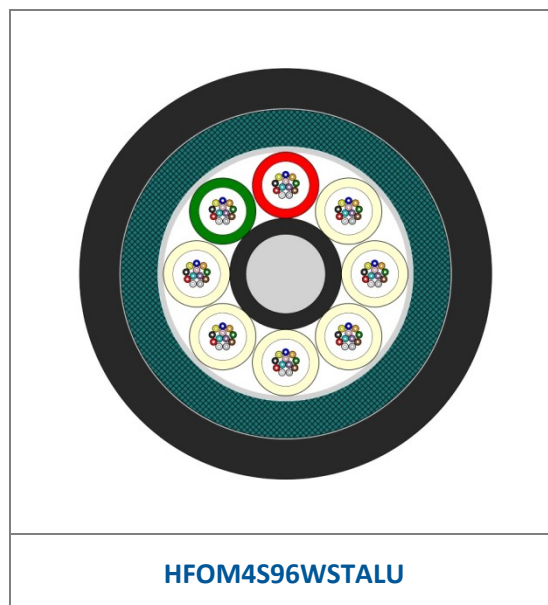
## APPLICATION

The Brand-Rex 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.

Brand-Rex 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
- 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

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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)		
				LU	LUHF3	NM
12-72	6	2.5	13.4	195	198	166
84-96	8		15.4	243	247	208
108-144	12		18.5	334	339	294
156-216	18		18.5	330	335	290

## 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	4000	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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## PRINT LEGEND

Example print legend:

[Length Mark]M BRAND-REX OPTICAL FIBRE CABLE HFOM4S96WSTALU 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	1700 x 915	2M + 137	4M + 313	1	<i>non-palletised</i>
84-96	1400 x 800	n/a	2M + 183	n/a	1	n/a
108-144	1700 x 915	n/a	4M + 313	n/a	<i>non-palletised</i>	n/a
156-216	1700 x 915	n/a	4M + 313	n/a	<i>non-palletised</i>	n/a

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

## PART NUMBER CONFIGURATOR

**a - b - S - c - WSTA - d**

**a** = **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: HFOM4S96WSTALU.

*"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.