

Optical Twin Sheath Steel Tape Armoured Multi Loose Tube Cables

Datasheet: GD102145v6

Brand-Rex a LEVITON company

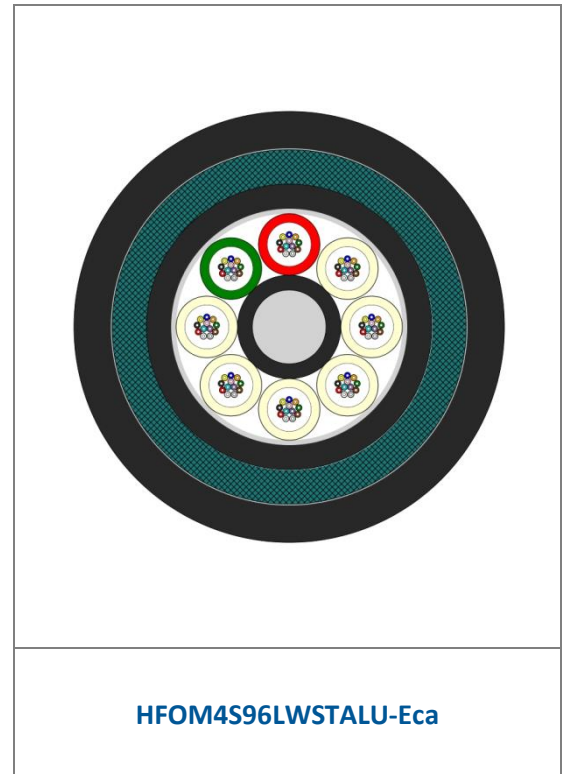
APPLICATION

The Brand-Rex Twin Sheath 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 Twin Sheath 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-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
- 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 UV Stable sheath materials as standard - 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

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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

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	15.4	265	269	214
84-96	8		17.5	316	323	257
108-144	12		20.6	425	433	354
156-216	18		20.6	424	432	351

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	600	2000	10 x Cable Diameter	15 x Cable Diameter	5000	30	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 HFOM4S96WLSTALU-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 [‡] (kg/reel)		Reels per Pallet	
	2km	4km	2km	4km	2km	4km
12-72	1400 x 800	n/a	2M + 183	n/a	1	n/a
84-96	1400 x 800	n/a	2M + 183	n/a	1	n/a
108-144	1700 x 915	n/a	2M + 313	n/a	<i>non-palletised</i>	n/a
156-216	1700 x 915	n/a	2M + 313	n/a	<i>non-palletised</i>	n/a

[‡]Refer to nominal cable weight for M.

PART NUMBER CONFIGURATOR

a - b - S - c - W - d₁ - STA - d₂ - Eca

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: HFOM4S96WLSTALU-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.