

Optical Steel Tape Armoured Multi Loose Tube Cables

Datasheet: GD102199v4

Brand-Rex | a **LEVITON**
company

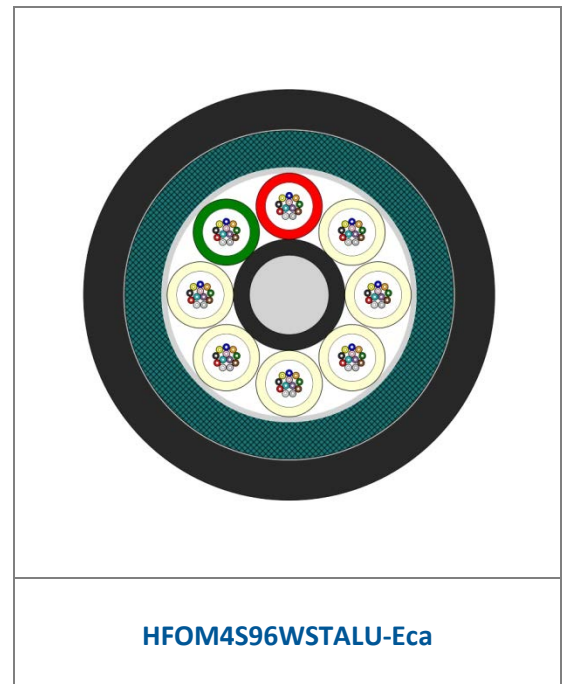
APPLICATION

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-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
- Available in a range of UV Stable 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

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 | 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 ± 180°) |
|-------------|-------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------|---------------------|--------------------------------|
| 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 a LEVITON company OPTICAL FIBRE CABLE HFOM4S96WSTALU-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 | 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 |

[‡]Refer to nominal cable weight for M.

PART NUMBER CONFIGURATOR

a - b - S - c - WSTA - d - 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: HFOM4S96WSTALU-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.