

Optical Fire Survival Unitube Cables

Datasheet: GD102091v3

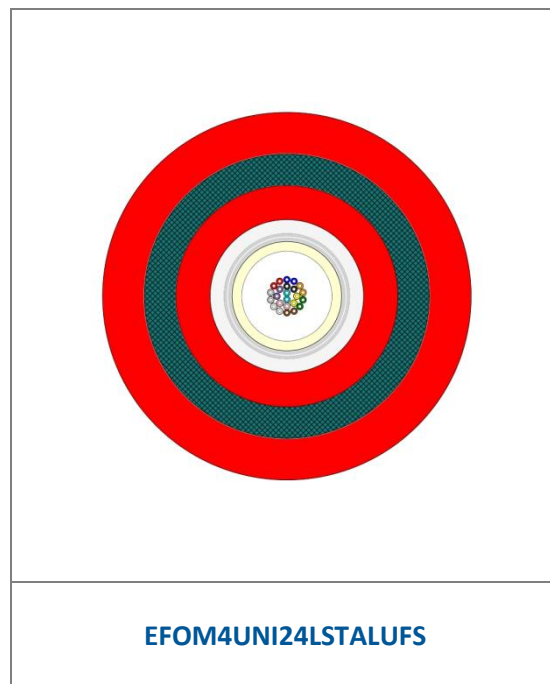
APPLICATION

The Brand-Rex Fire Survival Unitube Cable offers up to 24 fibres in a compact cable construction. This cable is specially designed to withstand the strict flammability tests of IEC 60331-25.

The Fire Survival Unitube is suitable for use in areas where critical data transmission must continue in the event of fire; such as building management, fire and security systems.

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
- Layer of Fire Retardant Tapes – to protect the fibres against fire damage
- Corrugated Steel Tape Armour – for superior mechanical crush and impact resistance and optimum rodent protection
- Twin Sheath Design – offering additional flame retardant material and mechanical protection
- Included in the Leviton and Brand-Rex 25 Year System Warranties when used in conjunction with Leviton or Brand-Rex copper 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

MATERIAL IDENTIFICATION

Material Identifier	LUHF3
Material Description	Enhanced HFFR-LS*
Flammability Rating	IEC 60332-3-24, IEC 60331-25, BS EN 50200 PH120 & BS 8434-2
Smoke Emission	IEC 61034-1 & 2
Acid Gas Emission	IEC 60754-2
Colour	Red

[†] Halogen Free Flame Retardant – Low Smoke

Optical Fire Survival Unitube Cables

Datasheet: GD102091v3

Brand-Rex a **LEVITON** company

PHYSICAL CHARACTERISTICS

Fibre Count	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
2-24	4.0	13.45	212.9

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	230	700	10 x Cable Diameter	15 x Cable Diameter	2500	30	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

Optical Fire Survival Unitube Cables

Datasheet: GD102091v3

Brand-Rex a LEVITON company

PRINT LEGEND

Example print legend:

[Length Mark]m BRAND-REX OPTICAL FIBRE CABLE EFOM4UNI24LSTALUFS Made in the UK [ID number] [Week/Year]

PACKAGING INFO

Fibre Count	Reel Size (flange x width mm)	Gross Weight (kg/reel)	Reels per Pallet
		2km	2km
2-24	1200 x 690	563	1

Only available in up to 2km lengths.

PART NUMBER CONFIGURATOR

EF - a - UNI - b - LSTALUFS

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

b = 2 digit fibre count
e.g. "02" for 2 fibre cable

Example part number: EFOM4UNI24LSTALUFS.

"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.