Optical Glass Yarn Armoured Multi Loose Tube Cables

Datasheet: GD102038v2



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-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
- 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
- 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

FIBRE IDENTIFICATION

Fibre Identifier*	008	108	208	062	050	ОМ3	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**		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	
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	

[†] 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 M (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	Max. Impact	Max. Torsion (Turns $\pm 180^{\circ}$)
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 OPTICAL FIBRE CABLE HFOM4S96WRRLU MADE IN UK [ID number] [Week/Year]

PACKAGING INFO

Fibre Count	Reel Size (flange x width mm)			Veight [‡] 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

^{*}Refer to nominal cable weight for *M*.

PART NUMBER CONFIGURATOR

<u>a</u> - <u>b</u> - S - <u>c</u> - WRR - <u>d</u>

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

 ${\it Example part number: HFOM4S96WRRLU}.$

"Brand-Rex is **dedicated** to **designing**, **developing** and **manufacturing**sustainable **high performance** structured cabling and speciality **cabling solutions**"

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