

APPLICATION

The Brand-Rex B2_{ca} Premises Distribution Cable (PDC) family is compliant with the European Construction Products Regulation, achieving Euroclass level B2_{ca} according to EN 13501-6. These B2_{ca} Euroclass cables also have optimum levels of smoke emission, flaming droplets and acid gas production making them a versatile choice for most internal installations. The PDC B2_{ca} Euroclass cables are suited to any high density backbone installation where people safety in the case of fire is a high priority.

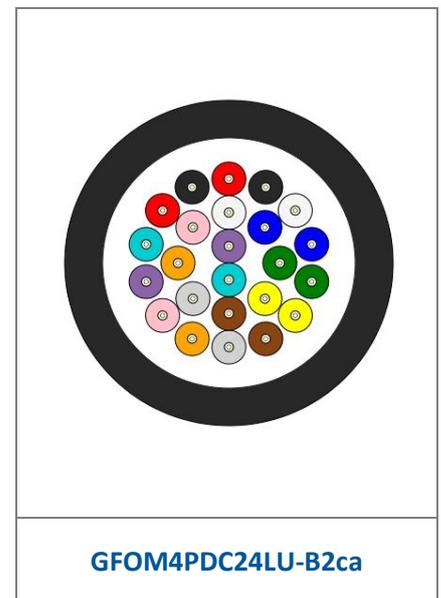
Brand-Rex PDCs offer up to 24 tight buffered fibres in a compact cable construction. The product range is designed using non wicking yarns and UV stable Halogen Free Flame Retardant Low Smoke Halogen Free (HFFR-LS) sheathing material as standard.

Brand-Rex PDCs are suitable for use in structured cabling installations: data centres, LANs, SANs and longer length backbones.

FEATURES AND BENEFITS

- 2-24 Halogen Free Flame Retardant Low Smoke HFFR-LS sheathed Tight Buffered Fibres - colour coded according to TIA-598-C
- Customisable Fibre Selection - Single-Mode, Multi-Mode and hybrid versions to suit a variety of applications
- Flexible Strength Members - in the form of glass yarns for improved installation preparation time and rodent resistance
- Black enhanced HFFR-LS* material meets the requirements of the Construction Products Regulation (CPR) Euroclass B2_{ca}
- Exceeds the Mechanical and Environmental Performance defined by IEC 60794-2-20
- 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.

* Halogen Free Flame Retardant – Low Smoke



STANDARDS

Applicable Cable Standards: IEC 60794-2-20

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

REACTION TO FIRE

CHARACTERISTIC	STANDARD	RATING
Single Cable Flame Rating	IEC 60332-1-2	Pass
Bundled Cable Flame Rating	EN 50399 20.5kW source	B2 _{ca}
Smoke Production	EN 50399	s1a
Flaming Droplets / Particles	EN 50399	d0
Acid Gas Emission / Acidity	EN 50267-2-3	a1
Euroclassification	EN 13501-6	B2 _{ca} s1a d0 a1

Optical Premises Distribution Euroclass B2_{ca} Cables

Datasheet: GD103099v6

PHYSICAL CHARACTERISTICS

Fibre Count	Nom. Buffer Diameter (mm)	Nom. Cable Diameter (mm)	Nominal Cable Weight (kg/km)
2	0.9	5.7	36
4		5.9	40
6		6.3	45
8		6.9	53
12		7.5	62
16		8.1	72
24		9.3	89

MECHANICAL PERFORMANCE

Fibre Count	Max. Long Term Load (N)	Max. Short Term Load (N)	Min. Static Bend	Min. Dynamic Bend	Max. Crush (N)	Max. Impact (Nm)	Max. Torsion (Turns $\pm 180^\circ$)
2-6	400	1000	10 x Cable Diameter	15 x Cable Diameter	1000	5	5
8	441	1500					
12	519	1600					
16	608	2000					
24	765	2300					

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

PRINT LEGEND

Example print legend:

[Length Mark]m BRAND-REX a LEVITON company OPTICAL FIBRE CABLE GFOM4PDC24LU-B2ca 24 FIBRE 50/125 OM4
EN 50399 Euroclass B2ca s1a d0 a1 MADE IN UK [ID number] [Week/Year]

PACKAGING INFO

Part Number	Reel Size (flange x width mm)		Gross Weight (kg/reel)		Reels per Pallet	
	2km	4km	2km	4km	2km	4km
GF*PDC02LU-B2ca	915 x 460	915 x 460	83	143	2	2
GF*PDC04LU-B2ca	915 x 460	915 x 460	89	155	2	2
GF*PDC06LU-B2ca	915 x 460	915 x 460	98	174	2	2
GF*PDC08LU-B2ca	915 x 460	1070 x 510	113	214	2	2
GF*PDC12LU-B2ca	915 x 460	1070 x 510	129	245	2	2
GF*PDC16LU-B2ca	915 x 460	1070 x 510	147	282	2	2
GF*PDC24LU-B2ca	1070 x 510	1200 x 700	189	348	2	1

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

"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.