

Optical Premises Distribution Euroclass B2_{ca} Cables

Datasheet: GD103099v6

Brand-Rex a LEVITON company

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.

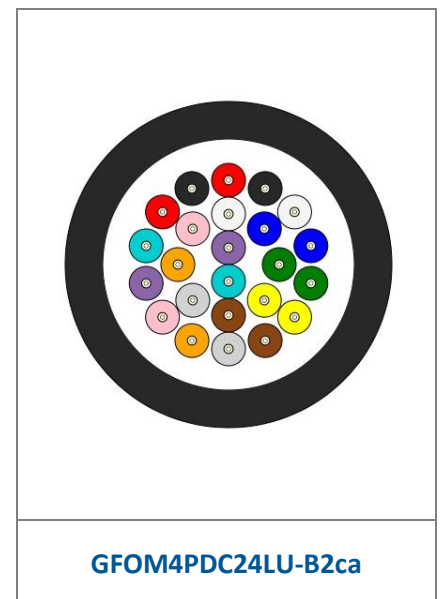
Brand-Rex PDCs offer up to 24 tight buffered fibres in a compact cable construction. The product range is designed using non wicking yarns and UV stable Halogen Free Flame Retardant Low Smoke Halogen Free (HFFR-LS) sheathing material as standard.

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

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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.