Product Datasheet Intex Mini-BO

(I/O-Distribution) Page 1 of 2

Rev. 10 - 08/09/01

Intex (for internal & external use) **Mini-Breakout (Distribution) Optical Fibre Cables**



halogen-free, metal-free

Application

- Structured (premises) wiring systems: campus and/or building backbone (riser) and/or horizontal cabling.
- Support all current and future Categories (5, 6, 7 and ...) and all computer network applications such as FDDI, Gigabit Ethernet and ATM.
- Easy to install in ducts, tunnels and trenches. Not recommended for direct burial.

Key features

- These cables are halogen-free (= FRNC and LSNH) and watertight and therefore suitable for internal and external (= intex) use. Consequently splicing can be avoided and the installation gets more cost-effective.
- These cables are all dielectric (metal-free).
- **Predicted life time > 30 years.**

Construction & dimensions



Cable specifications (construction in accordance with IEC 60794)

- 1. Swellable reinforced yarns as common strength members and for the longitudinal watertightness.
- 2. Primary coated optical fibres: Ø 280 ± 15 μm.
- 3. Tight buffered fibres: \emptyset 0.9 \pm 0.1 mm. Colour coding of the buffered fibres: white - red - blue - yellow - green - violet - brown - black - orange - turquoise - pink - grey of the fibres 1 – 12 the secondary coating is coloured of the fibres 13 – 24 the primary coating is coloured and the secondary coating is transparent.
- 4. Swellable tape.
- 5. Orange halogen-free (FRNC/LSNH) outer jacket. Identification: BELDEN OFC - "cable type" - "number x type of fibre" +date-, meter- and P/N-marking.

Mechanical data

No. of fibres	4	6	8	12	24
Ø nom. (mm)	5.4	5.9	5.9	7.6	9.6
Max. pulling tension (N)	400	450	450	500	600
Energy of flame (kJ/m)	296	347	371	622	1082
Weight (kg/km)	26	30	32	45	65

Ordering information

Belden Europe code

Fibre-type/-count	4	6	8	12	24
9/125	available on request				
50/125	49485	49486	49487	49488	49489
62.5/125	49480	49481	49482	49483	49484
Colour code (orange)	3090	3090	3090	3090	3090
Reel code	241	025	025	042	042
Std. del. length	2100 ± 100 m				

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Optical characteristics

Characteristics (cabled) Multi-Mode - Graded-Index optical fibres according to IEC 60793

	Fibre-type	Size (µm)	Wavelength (nm)	Attenuation average/max. (dB/km)	Bandwidth (MHz•km)	Gigabit Ethernet Performance (m)	Refractive Index
-	50/125	50 ± 2.5	850	2.6 / 2.8	≥ 600	550	1.481
	62 5/425	125 ± 2 62.5 ± 2.5	1300 850	0.6 / 0.9 3.0 / 3.2	≥ 1200 ≥ 200	550 220	1.476 1.495
	62.5/125	125 ± 2	1300	0.7 / 0.9	≥ 600	550	1.490

Fibres with improved Gigabit Ethernet performance on request available.

Characteristics (cabled) Single-Mode - Matched-Cladded optical fibres according to ITU-G.652

Fibre-type	Size (µm)	Wavelength (nm)	Attenuation average/max. (dB/km)	Dispersion (ps/(nm•km))	PMD (ps/√km)	Refractive Index
9/125 patchcord quality	9.3 ± 0.5 125 ± 1	1310 1550	0.35 / 0.5 0.21 / 0.3	<u><</u> 3.5 < 18	< 0.5	1.467 1.467

A test report (attenuation) is supplied with each delivery.

Mechanical, physical and/or environmental

Temperature range according to IEC 60794-1-2-F1 Strippability

Transport/storage -30 to +70 °C Secondary coating only ≤ 10 cm Installation -5 to +50 °C Secondary + primary coating ≤ 10 mm Operation -30 to +70 °C

Watertightness according to IEC 60794-1-2-F5

Tight buffer \leq 4000 N /m Cable \leq 4000 N /m

Bending radii for fibres and tubes Bending radii cable

 $pH \ge 3.5 - \mu S/cm \le 100$

Installation/operation > 25 mm Static according to IEC 60794-1-2-E11 - 15 x Ø Dynamic according to IEC 60794-1-2-E6 - 20 x Ø

Dynamic according to IEC 00794-1-2-E0 – 20 X &

Halogen-free according to HD 602 (IEC 60754-2) Flame retardancy according to IEC 60332-2

Guide to installation and handling

See table with dimensions

- When laying and installing optical fibre cables it is vitally important not to exceed the specified
 values set for pulling tension, bending radii and temperature. The installation methods have to be
 in accordance with the common standards.
- To ease insertion into tubes certified lubricants (e.g. paraffin) may be used. The use of soap or similar substances as lubricants is strictly prohibited.
- If a cable needs to be fastened, constrictions ≥ 0.3 mm must be prevented.
- It is advisable to cap the cable-ends during storage.

Options

Corrosivity

- Indoor Mini-Breakout cables with tight buffered fibres or with excellent strippable dry semi-tight buffered fibres.
- Non-standard cable constructions with improved rodent protection, colours, details and/or additional information regarding specifications are available on request.