Indoor
Mini-Breakout (Distribution)
Optical Fibre Cables
halogen-free, metal-free

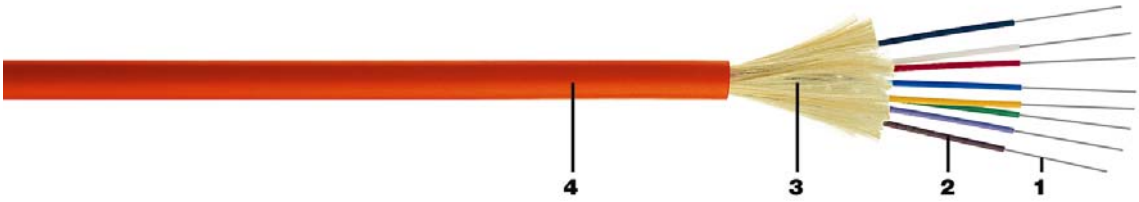
Application

- Structured (premises) wiring systems: building backbone (riser) and/or **horizontal cabling (Fibre To The Desk).**
- Support all computer network applications such as FDDI, Gigabit Ethernet and ATM.

Key features

- These cables are **halogen-free** = FRNC (Flame-Retardant, Non Corrosive) and LSNH (Low Smoke, Non Halogen).
- These cables are **all dielectric** and therefore immune to lightning and electromagnetic interference (EMC-safe), spark-free and require no earthing.
- **Predicted lifetime > 30 years**.

Construction & dimensions



Cable specifications (construction in accordance with IEC 60794)
1. Primary coated optical fibres: Ø 280 ± 15 µm.
2. Tight buffered fibres: Ø 0.9 ± 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.
3. Reinforced yarns as common strength members.
4. **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	2	4	6	8	12	16	24
Ø nom. (mm)	4.0	4.8	5.3	5.3	7.0	8.0	9.0
Max. pulling tension (N)	400	400	450	450	500	500	600
Energy of flame (kJ/m)	227	294	339	351	619	886	1044
Weight (kg/km)	16	19	23	25	40	49	57

Options

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

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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)	Ethernet Performance (m)		Refractive Index
					1GbE	10Gbe	
62.5/125 OM1	62.5 ± 2.5 125 ± 1	850 1300	3.0 / 3.2 0.7 / 0.9	≥ 200 ≥ 600	275 550	33 n.a.	1.495 1.490
50/125 OM2	50 ± 2.5 125 ± 1	850 1300	2.6 / 2.8 0.6 / 0.9	≥ 600 ≥ 1200	550 550	82 n.a.	1.481 1.476
50/125 OM2e	50 ± 2,5 125 ± 1	850 1300	2,6 / 2,8 0,6 / 0,9	≥ 600 ≥ 1200	750 2000	110 n.a.	1,481 1,476
50/125 OM3	50 ± 2.5 125 ± 1	850 1300	2.6 / 2.8 0.6 / 0.9	≥ 1500 ≥ 500	900 550	300 n.a.	1.482 1.477

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

Mechanical, physical and/or environmental

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

Transport/storage	- 30 to + 70 ºC
Installation	- 5 to + 50 ºC
Operation	- 5 to + 55 ºC

Pulling tension according to IEC 60794-1-2-E1
See table with dimensions

Bending radii for fibres and tight buffers
Installation/operation > 25 mm

Halogen-free according to IEC 60754-2 (HD 602)
Corrosivity pH ≥ 3.5 - µS/cm ≤ 100

Strippability

Secondary coating only	≤ 10 cm
Secondary + primary coating	≤ 10 mm

Crush resistance according to IEC 60794-1-2-E3

Tight buffer	≤ 4000 N/m
Cable	≤ 4000 N/m

Bending radii cable
Static according to IEC 60794-1-2-E11 – 15 x Ø
Dynamic according to IEC 60794-1-2-E6 – 20 x Ø

Flame retardancy according to IEC 60332-2

Guide to installation and handling

- 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 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.

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Ordering information

Belden European Part Numbers

Fibre-type/-count	**2**	**4**
62.5/125-OM1	GIMT102	GIMT104
50/125-OM2	GIMT202	GIMT204
50/125-OM2e	GIMT402	GIMT404
50/125-OM3	GIMT302	GIMT304
Std. reel (non-returnable)	plywood reel ∅ 560 * 336 mm, weight 4.25 kg	
Std. del. length	2100 ± 100 m	

Fibre-type/-count	**6**	**8**	**12**
62.5/125-OM1	GIMT106	GIMT108	GIMT112
50/125-OM2	GIMT206	GIMT208	GIMT212
50/125-OM2e	GIMT406	GIMT408	GIMT412
50/125-OM3	GIMT306	GIMT308	GIMT312
Std. reel (non-returnable)	plywood reel ∅ 800 * 475 mm, weight 7.65 kg		
Std. del. length	2100 ± 100 m		

Fibre-type/-count	**16**	**24**
62.5/125-OM1	GIMT116	GIMT124
50/125-OM2	GIMT216	GIMT224
50/125-OM2e	GIMT416	GIMT424
50/125-OM3	GIMT316	GIMT324
Std. reel (non-returnable)	plywood reel ∅ 1000 * 530 mm, weight 18 kg	
Std. del. length	2100 ± 100 m	