GUBT

Intex Breakout Cables
Universal Indoor/Outdoor
A/I-VQ(ZN)HH

Ordering Information

Belden European Part Numbers

Fibre type / count	2	4	6	8
62.5/125-OM1	GUBT102	GUBT104	GUBT106	GUBT108
50/125-OM2 BW 600/1200	GUBT202	GUBT204	GUBT206	GUBT208
50/125-OM3	GUBT302	GUBT304	GUBT306	GUBT308
50/125-OM2e	GUBT402	GUBT404	GUBT406	GUBT408
50/125-OM2 BW 500/500	GUBT502	GUBT504	GUBT506	GUBT508
50/125-OM4	GUBT602	GUBT604	GUBT606	GUBT608
9/125 ITU G.655	GUBT702	GUBT704	GUBT706	GUBT708
9/125 ITU G.652D	GUBT802	GUBT804	GUBT806	GUBT808
9.125 ITU G.657A	GUBTA02	GUBTA04	GUBTA06	GUBTA08
Std. reel (non-returnable)	∅ 800 * 475 mm weight 7.65 kg		∅ 1000 * 530 mm weight 18 kg	
Std. delivery length	2100 ± 100m			

Applications

- For **outdoor and indoor** use in structured (data) wiring systems **(backbone)** and/or in networks for telecom, cable TV and/or broadcast.
- Support all computer network applications such as FDDI, Gigabit Ethernet and ATM.
- **Easy to install** in ducts, tunnels and trenches.

Features & Benefits

- The individual single fibre units (of which these metal-free breakout cables are composed) permit direct **(detensioned) terminations with separate single-way connectors**, which eliminate splicing of pigtails and/or breakout kits.
- These cables are **halogen-free** (= FRNC and LSNH) and **metal-free** (all dielectric).
- **Predicted lifetime > 30 years**.

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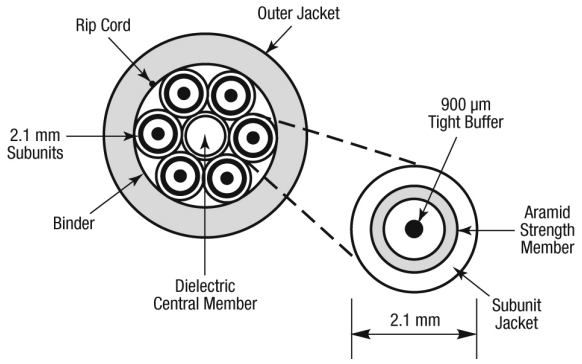
Construction & Dimensions



Cable Specifications (construction in accordance with IEC 60794)

1. Dielectric central element of glass reinforced plastic (GRP), also as protection against kinks, with water blocking tape
2. Primary coated optical fibres: Ø 280 ± 10 µm.
3. Tight buffered fibres: Ø 0.90 ± 0.1 mm.
4. Waterblocking aramid yarns as strength members.
5. **Yellow** (SM fibre) or **Orange** (MM fibre) halogen-free (FRNC/LSNH) numbered jacket (Ø 2.1 ± 0.2mm).
6. Waterblocking tape.
7. **Yellow** (SM fibre) or **Orange** (MM fibre) halogen-free (FRNC/LSNH) outer jacket with rip cord.
   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
Cable core	CE+2+2BE	CE+4	CE+6	CE+8
Ø nom. (mm)	7.2	7.2	8.0	9.4
Max. pulling tension (N)				
Long term	600	600	1400	2000
Short term	1200	1200	2800	4000
Weight (kg/km)	25	31	59	77
Energy of Flame (kJ/m)	379	507	928	1235

CE = Central Element, BE = Blind Element (filler)

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Optical Characteristics

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

European Partnumber Coding, Position 5	Fibre-Type	Mode-Field /CladdingDiameter (um)	Wave-length (nm)	Attenuation average/ max. (dB/km)	Dispersion (ps/(nm-km)	PMD (ps/km)	Cable Cut-off Wave-length (nm)
8	**9/125 G.652D Patch cord quality**	9.2 ± 0.4 125 ± 0.3	1310 1550	0.34 / 0.50 0.21 / 0.30	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260
7	**9/125 G.655**	8.4 ± 0.6 125 ± 1	1550	0.25 / 0.30	3.5 – 8.5	≤ 0.1[A]	≤ 1260
A	**9/125 G.657A**	8.9 ± 0.4 125 ± 0.3	1310 1550 1625	0.35 / 0.5 0.21 / 0.3 0.24 / 0.4	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260

Note A- Link design value

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

European Partnumber Coding, Position 5	Fibre-Type	Core/ Cladding Diameter (um)	Wave-length (nm)	Attenuation average/ max. (dB/km)	**Bandwidth (MHz•km)**	Ethernet Performance (m)		**Num. Apert. (µm)**
						1GBE	**10 GBE**	
1	**62.5/125 OM1**	62.5 ± 2.5 125 ± 1	850 1300	2.7 / 3.2 0.6 / 1.1	≥ 200 ≥ 600	275 550	33 n.a.	0.275 ± 0.015
5	**50/125 OM2**	50 ± 2.5 125 ± 1	850 1300	2.4 / 3.0 0.7 / 1.0	≥ 500 ≥ 500	600 600	82 n.a.	0.20 ± 0.015
2	**50/125 OM2**	50 ± 2.5 125 ± 1	850 1300	2.3 / 2.8 0.6 / 0.9	≥ 600 ≥ 1200	600 600	82 n.a.	0.20 ± 0.015
4	**50/125 OM2e**	50 ± 2,5 125 ± 1	850 1300	2,3 / 2,8 0,6 / 0,9	≥ 600 ≥ 1200	750 2000	110 na	0.20 ± 0.015
3	**50/125 OM3**	50 ± 2.5 125 ± 1	850 1300	2.5 / 3.0 0.5 / 1.0	≥ 1500 ≥ 500	900 550	300 n.a.	0.20 ± 0.015
6	**50/125 OM4**	50 ± 2.5 125 ± 1	850 1300	2.5 / 3.0 0.5 / 1.0	≥ 6000 ≥ 500	900 550	550 n.a.	0.20 ± 0.015

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

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Mechanical, Physical and/or Environmental Characteristics

Requirements	
Temperature range according to IEC 60794-1-2-F1	
Transport/storage	-30 to + 70 ˚C
Installation	-5 to + 50 ˚C
Operation	-30 to + 70 ˚C
Pulling tension according to IEC 60794-1-2-E1	
Single Fibre Unit	
Long term	≤ 110 N
Short term	≤ 220 N
Cable	See table
Bending radii for fibres and semi-tight buffers	
Installation/operation	>25 mm
Strippability	
Secondary coating only	≤ 10 cm
Secondary + primary coating	≤ 10 mm
Crush resistance according to IEC 60794-1-2-E3	
Semi-Tight Buffer	≤ 4000 N/ m
Single Fibre Unit	≤ 8000 N/m
Cable (Long-term)	≤ 30000 N/m
Halogen-free according to IEC 60754-2 (EN 50267-2-2) Corrosivity	pH ≥ 3.5 - µS/cm ≤ 100
Flame retardancy according to IEC 60332-1 (EN 60332-1)	Pass
Watertightness according to IEC 60794-1-2-F5	Yes

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.
- If a cable needs to be fastened, constrictions must be avoided.
- To ease insertion certified lubricants (e.g. paraffin) may be used.
  The use of soap or similar substances as lubricants is strictly prohibited.
- It is advisable to cap the cable-ends during storage

Revision

Rev.	Description	Date	Init.
02	Old version with RP has been changed	01/04/10	SN
03	Increase Crush resistance value	02/09/10	SN
04	Added fiber types, and specified CE.	05/01/11	TvR
05	Diameter change 2 and 4 fibers into 7.2 mm	07/11/11	HB

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Orig.: HB	Review:	

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