GIPT__H

Interconnect Cables
Indoor – Heavy Duplex
I-V(ZN)HH

Ordering Information

Belden European Part Numbers

Fibre type / diameter	1.6	1.8	2.0	2.1	2.4	2.8	3.0
62.5/125-OM1	GIPT1AH	GIPT1BH	GIPT1CH	GIPT1HH	GIPT1DH	GIPT1EH	GIPT1FH
50/125-OM2 BW 500/500	GIPT2AH	GIPT2BH	GIPT2CH	GIPT2HH	GIPT2DH	GIPT2EH	GIPT2FH
50/125-OM3	GIPT3AH	GIPT3BH	GIPT3CH	GIPT3HH	GIPT3DH	GIPT3EH	GIPT3FH
50/125-OM3 BI	GIPTDAH	GIPTDBH	GIPTDCH	GIPTDHH	GIPTDDH	GIPTDEH	GIPTDFH
50/125-OM4	GIPT6AH	GIPT6BH	GIPT6CH	GIPT6HH	GIPT6DH	GIPT6EH	GIPT6FH
50/125-OM4	GIPTEAH	GIPTEBH	GIPTECH	GIPTEHH	GIPTEDH	GIPTEEH	GIPTEFH
9/125 ITU G.655	GIPT7AH	GIPT7BH	GIPT7CH	GIPT7HH	GIPT7DH	GIPT7EH	GIPT7FH
9/125 ITU G.657A1	GIPTAAH	GIPTABH	GIPTACH	GIPTAHH	GIPTADH	GIPTAEH	GIPTAFH
9/125 ITU G.657A2	GIPTFAH	GIPTFBH	GIPTFCH	GIPTFHH	GIPTFDH	GIPTFEH	GIPTFFH
9/125 ITU G.657B3	GIPTIAH	GIPTIBH	GIPTICH	GIPTIHH	GIPTIDH	GIPTIEH	GIPTIFH
Std. plastic reel (non-returnable)	∅ 800 * 475 mm weight 14 kg						
Std. delivery length	2100 ± 100m						

Applications

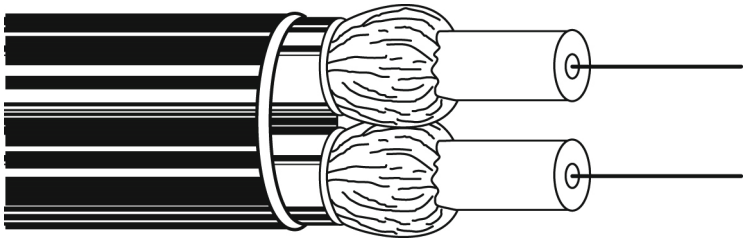
- **Flexible terminating leads** such as pigtails, patchcords and test leads.
- Support all computer network applications such as **FDDI, Gigabit Ethernet and ATM.**
- Short distance applications for indoor use.

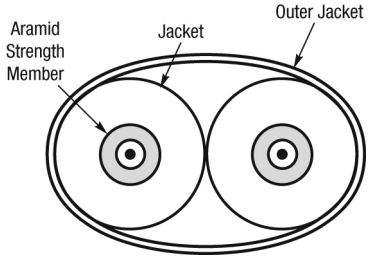
Features & Benefits

- **All dielectric** (metal-free) optical fibre leads permitting **direct (detensioned) termination with connectors.**
- These cables are **halogen free (FRNC / LSNH)**
- **Predicted lifetime > 30 years**.

©Copyright 2008, Belden Wire & Cable B.V. Netherlands • Tel. +31-(0)77-3878-555 • Fax +31-(0)77-3878-488 • E-mail: venlo.salesinfo@belden.com
All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner.
All printing errors are subject to correction. Technical specifications are subject to change without notice.

Construction & Dimensions





Cable Specifications (construction in accordance with IEC 60794)

1. Primary coated optical fibres: Ø 280 ± 15 µm.
2. FRNC / LSNH Tight buffer: Ø 0.90 ± 0.05 mm.
3. Aramid yarns as strength members.
4. **Yellow** (SM fibre) or **Orange** (MM fibre) halogen-free (FRNC/LSNH) jacket.
5. **Yellow** (SM fibre) or **Orange** (MM fibre) halogen-free (FRNC/LSNH) outer jacket.
   Identification: BELDEN OFC – ”cable type”– ”number x type of fibre” + date-, meter-and P/N-marking.

Mechanical Data

Diameter	1.6	1.8	2.0	2.1	2.4	2.8	3.0
Ø nom. (mm)	2.9 x 4.4 ± 0.2	3.1 x 4.8 ± 0.2	3.2 x 5.1 ± 0.2	3.3 x 5.3 ± 0.2	3.4 x 5.9 ± 0.2	4.4 x 6.9 ± 0.2	4.6 x 7.1 ± 0.2
Max. pulling tension (N)							
Long term	100	100	300	300	400	400	400
Short term	200	200	600	600	800	800	800
Energy of Flame (kJ/m)	365	370	379	395	422	455	487
Weight (kg/km)	23	24	28	31	37	43	50

©Copyright 2008, Belden Wire & Cable B.V. Netherlands • Tel. +31-(0)77-3878-555 • Fax +31-(0)77-3878-488 • E-mail: venlo.salesinfo@belden.com
All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner.
All printing errors are subject to correction. Technical specifications are subject to change without notice.

BELDEN
SENDING ALL THE RIGHT SIGNALS

Optical Characteristics

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

European Partnumber Coding, Position 5	Fibre-Type	Mode-Field /Cladding Diameter (um)	Wave-length (nm)	Attenuation average/ max. (dB/km)	Dispersion (ps/(nm-km)	PMD (ps/km)	Cable Cut-off Wave-length (nm)
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.657A1**	8.9 ± 0.4 124.8 ± 0.3	1310 1550 1625	0.35 / 0.5 0.21 / 0.3 0.24 / 0.4	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260
F	**9/125 G.657A2**	8.9 ± 0.4 124.8 ± 0.3	1310 1550 1625	0.35 / 0.5 0.21 / 0.3 0.24 / 0.4	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260
I	**9/125 G.657B3**	8.8 ± 0.4 125 ± 0.4	1310 1550 1625	0.35 / 0.5 0.22 / 0.3 0.24 / 0.4	≤ 3.5 ≤ 18	≤ 0.06	≤ 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
2	**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
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
D	**50/125 OM3 Flex**	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
E	**50/125 OM4 Flex**	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.

©Copyright 2008, Belden Wire & Cable B.V. Netherlands • Tel. +31-(0)77-3878-555 • Fax +31-(0)77-3878-488 • E-mail: venlo.salesinfo@belden.com
All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner.
All printing errors are subject to correction. Technical specifications are subject to change without notice.

Maximum attenuation increase for Bend Insensitive Single Mode fibers in dB

European Partnumber Coding, Position 5	Fibre-Type	Wave-length (nm)	Attenuation increase max. @ 10 turns | 15mm radius (dB)	Attenuation increase max. @ 1 turn | 10mm radius (dB)	Attenuation increase max. @ 1 turn | 7.5mm radius (dB)	Attenuation increase max. @ 1 turn | 5mm radius (dB)
A	**9/125 G.657A1**	1550 1625	0.25 1.00	0.75 1.50		
F	**9/125 G.657A2**	1550 1625	0.03 0.10	0.10 0.20	0.50 1.00	
I	**9/125 G.657B3**	1550 1625		0.03 0.10	0.08 0.25	0.15 0.45

Maximum attenuation increase for Bend Insensitive Multi Mode fibers in dB

European Partnumber Coding, Position 5	Fibre-Type	Wave-length (nm)	Attenuation increase max. @ 2 turns | 15mm radius (dB)	Attenuation increase max. @ 2 turn | 7.5mm radius (dB)
D	**50/125 OM3 Flex**	850 1300	0.10 0.30	0.20 0.50
E	**50/125 OM4 Flex**	850 1300	0.10 0.30	0.20 0.50

©Copyright 2008, Belden Wire & Cable B.V. Netherlands • Tel. +31-(0)77-3878-555 • Fax +31-(0)77-3878-488 • E-mail: venlo.salesinfo@belden.com
All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner.
All printing errors are subject to correction. Technical specifications are subject to change without notice.

Mechanical, Physical and/or Environmental Characteristics

Requirements	
Temperature range according to IEC 60794-1-2-F1 Transport/storage Installation Operation	 -30 to + 70 ˚C -5 to + 50 ˚C -5 to + 55 ˚C
Pulling tension according to IEC 60794-1-2-E1 Tight buffer Heavy Duplex cable	 ≤ 3 N See table
Bending radii for fibres and tight buffers Installation/operation For Bend Insensitive fibres	 >25 mm see Optical Characteristics
Bending radii cable Static according to IEC 60794-1-2-E11 Dynamic according to IEC 60794-1-2-E6 For Bend Insensitive fibers:	 15 x Ø 20 x Ø See Optical Characteristics
Strippability Secondary coating only Secondary + primary coating	 ≤ 10 cm ≤ 10 mm
Crush resistance according to IEC 60794-1-2-E3 Tight Buffer Heavy Duplex cable	 ≤ 4000 N/ m ≤ 5000 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

Guide to installation and handling

- It is vitally important to not exceed the specified values.
- Interconnection optical fibre cables have been designed for short distance (≤ 10 m) applications inside buildings.

Options

- Semi-Tight Buffered fibres with excellent strippabillity.
- Non standard colours.

Revision

Rev.	Description	Date	Init.
02	Bending radii cable added	16/07/09	SN
03	OM3+ changed to OM4	12/10/09	JW
04	Change dimensions	26/11/13	SN
05	Deleted G652D fiber; added bending radii for BI fibers	04/08/14	TvR

Date: 16/07/09	Page 1 of 1	Part Number:
Orig.: SN	Review:	**GIPT__H**

©Copyright 2008, Belden Wire & Cable B.V. Netherlands • Tel. +31-(0)77-3878-555 • Fax +31-(0)77-3878-488 • E-mail: venlo.salesinfo@belden.com
All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner.
All printing errors are subject to correction. Technical specifications are subject to change without notice.