



Application and Key features

- **Flexible terminating leads** such as pigtails.
- Dry semi-tight buffered fibres with excellent strippability.
- **Predicted life time > 30 years.**

Construction & dimensions

Cable specifications (construction in accordance with IEC 60794)

1. Primary coated optical fibres: $\text{Ø } 250 \pm 15 \mu\text{m}$.
2. Dry semi-tight buffer: $\text{Ø } 0.9 \pm 0.1 \text{ mm}$.

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
	125 ± 2	1300	0.6 / 0.9	≥ 1200	550	1.476
62.5/125	62.5 ± 2.5	850	3.0 / 3.2	≥ 200	220	1.495
	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/ $\sqrt{\text{km}}$)	Refractive Index
9/125 patchcord quality	9.3 ± 0.5	1310	0.35 / 0.5	≤ 3.5		1.467
	125 ± 1	1550	0.21 / 0.3	≤ 18	≤ 0.5	1.467

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

Mechanical, physical and/or environmental

Temperature range

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

Strippability

Secondary coating only	$\leq 100 \text{ cm}$
Secondary + primary coating	$\leq 25 \text{ mm}$

Pulling tension $\leq 3 \text{ N}$

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

Dry semi-tight buffer $\leq 4000 \text{ N/m}$

Bending radii for fibres and tight buffers

Installation/operation $> 25 \text{ mm}$

Guide to installation and handling

- When using (semi-)tight buffered optical fibres **it is vitally important not to exceed the specified values** set for pulling tension, bending radii and temperature.
- (Semi-)tight buffered optical fibres have been designed for **short distance ($\leq 10 \text{ m}$) applications.**

Ordering information

Belden Europe code

Fibre-type / -count	1x	colour code	colour	reel code	std. del. length
9/125	41758	0801	yellow	250	$2100 \pm 100 \text{ m}$
50/125	41756	0806	green	250	$2100 \pm 100 \text{ m}$
62.5/125	41757	0812	blue	250	$2100 \pm 100 \text{ m}$