

Application

- Particularly suitable for installation between poles with a span of max. 50 m.
 Max. allowed sag clearance at 20 °C: 0.5 m.

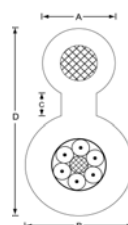
Key features

- Predicted lifetime > 30 years

Construction & Dimensions

- Catenary wire of galvanized steel wires
- Central strength member of galvanized steel wires with a layer of hot-melt.
- Primary coated optical fibres: $\varnothing 250 \pm 15 \mu\text{m}$
- Jelly filled (non-dripping and silicon-free) loose tubes with up to 6 fibres
 Individually colour coded optical fibres: red - natural – yellow - blue – green - violet
 The loose tubes are stranded around the central element, if necessary with blind elements (black tubes without fibres). The interstices are jelly filled.
 Colour coding of the loose tubes: 1. red – 2. white – rest yellow (9/125)
- Swelling tape
- Black UV-resistant PE outer jacket.
 Identification: BELDEN OFC – "cable type" – "number x type of fibre" + date-, meter- and P/N-marking.

Cable-type-	36aerialPE			
No. of fibres	6	12	24	36
Cable core	6 x 1	6 x 2	6 x 4	6 x 6
\varnothing Central element (mm)	2.0 / 2.8			
\varnothing Loose tube (mm)	2.1			
Weight (kg/km)	195			
Energy of flame (kJ/m)	5250			



Dimensions	
A	7.0 mm
B	11.0 mm
C	2.0 mm
D	20.0 mm

Ordering information

Belden Europe code

Fibre-type/-count	6	12	24	36
9/125-OS1	GASC906	GASC912	GASC924	GASC936
62.5/125-OM1	GASC106	GASC112	GASC124	GASC136
50/125-OM2	GASC206	GASC212	GASC224	GASC236
50/125-OM2e	GASC406	GASC412	GASC424	GASC436
50/125-OM3	GASC306	GASC312	GASC324	GASC336
Std. reel (non-returnable)	wooden reel $\varnothing 1250 * 688$ mm, weight 81 kg			
Std. delivery length	2100 \pm 100 m			

Optical characteristics

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

	Size (μm)	Wavelength (nm)	Attenuation average/max. (dB/km)	Bandwidth (MHz \cdot km)	Ethernet Performance (m)		Refractive Index
					1GbE	10Gbe	
62.5/125 OM1	62.5 \pm 2.5	850	3.0 / 3.2	\geq 200	275	33	1.495
	125 \pm 1	1300	0.6 / 0.8	\geq 600	550	n.a.	1.490
50/125 OM2	50 \pm 2.5	850	2.5 / 2.7	\geq 600	550	82	1.481
	125 \pm 1	1300	0.5 / 0.8	\geq 1200	550	n.a.	1.476
50/125 OM2e	50 \pm 2.5	850	2,5 / 2,7	\geq 600	750	110	1,481
	125 \pm 1	1300	0,5 / 0,8	\geq 1200	2000	n.a.	1,476
50/125 OM3	50 \pm 2.5	850	2.5 / 2.7	\geq 1500	900	300	1.482
	125 \pm 1	1300	0.5 / 0.8	\geq 500	550	n.a.	1.477

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

Fibre-type	Size (μm)	Wavelength (nm)	Attenuation average/max. (dB/km)	Dispersion (ps/(nm \cdot km))	PMD (ps/ $\sqrt{\text{km}}$)	Refractive Index
9/125 OS1	9.2 \pm 0.4	1310	0.33 / 0.38	\leq 3.5		1.467
	125 \pm 1	1550	0.20 / 0.25	\leq 18	\leq 0.2	1.467

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

Mechanical, physical and/or environmental

Temperature range according to IEC 794-1-F1
 Transport/storage - 30 to + 70 °C
 Installation - 5 to + 50 °C
 Operation - 30 to + 70 °C

Watertightness according to IEC 794-1-F5

Pulling tension according to IEC 794-1-E1
 \leq 4800 N

Crush resistance according to IEC 794-1-E3
 Loose tube \leq 3000 N/m
 Cable \leq 15000 N/m

Bending radii for fibres and tubes
 Installation/operation > 25 mm

Bending radii cable
 Static according to IEC 794-1-E11 - 10 \star \varnothing
 Dynamic according to IEC 794-1-E6 - 15 \star \varnothing

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 respective broadly standards or codes.
- The use of soap or similar substances as lubricants is strictly prohibited.
- The jelly filling inside the tubes can be removed using a tissue soaked in turpentine
- It is advisable to cap the cable-ends during storage.

Options

- **Non-standard cable constructions like different types of fibres in one cable**, colours, details and/or additional information regarding specifications are available on request.