Optical micro cable (7/4, 10/6)
A-D(ZN)2Y (HT)

Application: Micro cable for injection into micro tubes 7/4 or 10/6.

Construction and technical data:

- Central loose tube with up to 24 optical fibres, filled with thixotropic compound
- Strength members: Aramid
- Outer sheath: HDPE

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Sheathing material:	polyethylene
Colour of outer sheath:	black
Cable metal-free:	yes
Permitted storage and transport temperature:	-20 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +70 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet
Type of installation:	Microducts (Single cable installation)
Maximum tensile strength (installation), N:	100 N
Meter mark:	yes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

© 2026 · Klaus Faber AG · all rights reserved KLAUS FABER AG · Europaallee 33 · 66113 Saarbrücken · Germany · T +49 681 9711 - 0

	4 .. 12 fibres	24 fibres
Cross-section (not to scale)		
Recommended for microduct dimension (A/I-Ø in mm)	7/4	

MICRO A-D(ZN)2Y 1X8

Standard: ITU-T G.657A1

Fibre attenuation @1310 nm cabled: ≤0.36 dB/km

Fibre attenuation @1550 nm cabled: ≤0.22 dB/km

Mode field diameter (MFD) @1310 nm: 9.2 ± 0.4 µm

Mode field diameter (MFD) @1550 nm: 10.4 ± 0.8 µm

Zero dispersion wavelength: 1300 ~ 1324 nm

Zero dispersion slope: ≤0.092 ps/nm² * km

Polarisation mode dispersion (PMD): ≤0.1 ps/√km

Cut-off wavelength: ≤1260 nm

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤0.25 dB

Macro bending loss @1550 nm (1 turn Ø20 mm): ≤0.75 dB

Outer diameter (fibre): 200 ± 10 / 250 ± 10 µm

Cladding diameter (fibre): 125 ± 1.0 µm

Core/clad concentricity error: ≤0.6 µm

Cladding non-circularity: ≤1.0 %

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	p [N]	G [kg]	
072118	Micro A-D(ZN)2Y 1X4 G.657A1/G.652D OD 2.5 BK	4	0.35	2.5	100	300	7	singlemode
072119	Micro A-D(ZN)2Y 1X6 G.657A1/G.652D OD 2.5 BK	6	0.35	2.5	100	300	7	singlemode
073133	Micro A-D(ZN)2Y 1X12 G.657A1/G.652D OD 2,4 SW	12	0.35	2.4	100	300	7	singlemode
072120	Micro A-D(ZN)2Y 1X12 G.657A1/G.652D 200 OD 2.5 BK	12	0.35	2.5	100	300	7	singlemode
072121	Micro A-D(ZN)2Y 1X24 G.657A1/G.652D 200 OD 2.9 BK	24	0.35	2.9	100	300	9	singlemode

Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
p	Crush resistance
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured