

Optical mini cables

A-DQ4Y nx12 G.657A1/G.652D



Application: Mini cable for blowing into microducts

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), if applicable incl. oversheathing; dummies if required
- Cable strand: Dry, with water-blocking materials
- Outer sheath: polyamide (PA), 1 underlying rip cord

Standard: IEC 60794-1-1/2, IEC 60794-5, IEC 60794-5-20

Colour of outer sheath: black

Permitted storage and transport temperature: -30 - +70 °C

Permitted installation temperature: -5 - +50 °C

Permitted operating temperature: -25 - +70 °C

Bending radius (under tension): 20 x Ø

Bending radius (without tension): 15 x Ø

Printing method: ink jet

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.













	96 fibres	144 fibres	\$Fasern288
Cross-section (not to scale)			
Recommended for microduct dimension (A/I-Ø in mm)	12/8		14/10
















Mini A-DQ4Y nx12 E9 G.657A1/G652D













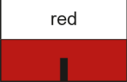
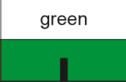
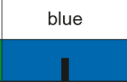
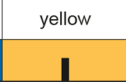


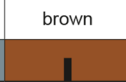

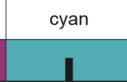


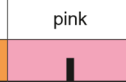
Standard:	ITU-T G.657A1
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Fibre attenuation @1625 nm cabled:	≤0.26 dB/km
Mode field diameter (MFD) @1310 nm:	9.2 ± 0.4 μm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.8 μm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm ² * 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 @1625 nm (10 turns Ø30 mm):	≤1.00 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.75 dB
Macro bending loss @1625 nm (1 turn Ø20 mm):	≤1.50 dB
Outer diameter (fibre):	200 ± 10 μm
Cladding diameter (fibre):	125 ± 0.7 μm
Core/clad concentricity error:	≤0.6 μm
Cladding non-circularity:	≤1.0 %
Proof stress:	≥0.69 GPa
















part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Lt1	DI1	Lt2	DI2	p [N]	G [kg]
071970	Mini A-DQ4Y 8X12 G.657A1/G.652D 200 800N OD 5.6 BK	96	5.6	800	8	0			500	32
071971	Mini A-DQ4Y 12X12 G.657A1/G.652D 200 800N OD 7.2 BK	144	7.2	800	12	0			500	48
071972	Mini A-DQ4Y 24X12 G.657A1/G.652D OD 9.2 BK	288	8	800	9	0	15	0	500	60
















Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
DI1	dummies 1st layer
Lt2	Loose tubes 2nd layer
DI2	dummies 2nd layer
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
											

Farbfolge Bündeladern / Colour sequence of Loose tubes														
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 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														