

# Optical Mini Cable

## A-DQ2Y nx12 G.657A1/G.652D (HT)



**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: HDPE, 1 underlying rip cord

**Standard:** IEC 60793-1, IEC 60793-2, IEC 60794-5

**Sheathing material:** polyethylene

**Colour of outer sheath:** black

**Permitted storage and transport temperature:** -20 - +70 °C

**Permitted installation temperature:** -5 - +50 °C

**Permitted operating temperature:** -20 - +60 °C

**Bending radius (under tension):** 20 x Ø





**Bending radius (without tension):** 15 x Ø

**Printing method:** ink jet

**Type of installation:** Microducts (Single cable installation)

**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.*

	72 fibres	96 fibres	144 fibres	288 fibres
Cross-section (not to scale)				
Recommended for microduct dimension (A/I-Ø in mm)	12/8	12/8 14/10	14/10 16/12	16/12 20/15

Mini A-DQ2Y nx12 E9 G.657A1/G652D

<b>Standard:</b>	ITU-T G.657A1
<b>Fibre attenuation @1310 nm cabled:</b>	≤0.36 dB/km
<b>Fibre attenuation @1550 nm cabled:</b>	≤0.22 dB/km
<b>Mode field diameter (MFD) @1310 nm:</b>	9.2 ± 0.4 μm
<b>Mode field diameter (MFD) @1550 nm:</b>	10.4 ± 0.8 μm
<b>Zero dispersion wavelength:</b>	1300 ~ 1324 nm
<b>Zero dispersion slope:</b>	≤0.092 ps/nm <sup>2</sup> * km
<b>Polarisation mode dispersion (PMD):</b>	≤0.1 ps/√km
<b>Cut-off wavelength:</b>	≤1260 nm
<b>Macro bending loss @1550 nm (10 turns Ø30 mm):</b>	≤0.25 dB
<b>Macro bending loss @1550 nm (1 turn Ø20 mm):</b>	≤0.75 dB
<b>Outer diameter (fibre):</b>	200 ± 10 / 250 ± 10 μm
<b>Cladding diameter (fibre):</b>	125 ± 1.0 μm
<b>Core/clad concentricity error:</b>	≤0.6 μm
<b>Cladding non-circularity:</b>	≤1.0 %

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Lt1	DI1	Lt2	DI2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
072140	Mini A-DQ2Y 1X12	12	0.5	5.5	500	1	5			1.4	1.5	300	23	singlemode
072141	Mini A-DQ2Y 2X12	24	0.5	5.5	500	2	4			1.4	1.5	300	23	singlemode
072142	Mini A-DQ2Y 4X12	48	0.5	5.5	500	4	2			1.4	1.5	300	23	singlemode
072143	Mini A-DQ2Y 6X12	72	0.5	5.5	500	6	0			1.4	1.5	300	23	singlemode
072144	Mini A-DQ2Y 8X12	96	0.5	6.2	1000	8	0			1.4	4.0	300	34	singlemode
072126	Mini A-DQ2Y 12X12	144	0.5	8	1000	12	0			1.4	4.2 / 2.0	300	55	singlemode
072433	Mini A-DQ2Y 16X12	192	0.5	9	1000	8	0	8	6	1.4	2.4	300	66	singlemode

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Lt1	DI1	Lt2	DI2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
073550	Mini A-DQ2Y 18X12	216	0.5	7.9	1000					1.4		300	80	singlemode
072145	Mini A-DQ2Y 24X12	288	0.5	9.4	1000	9	0	15	0	1.4	2.8	300	80	singlemode

Number of fibres	Number of fibres
Wm	Wall thickness of sheath
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
Ø Lt	Loose tube Ø
FRP	Central strength member / FRP
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 / 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														