Optical Mini Cable
A-DQ2Y nx24 G.657A1/G.652D (HT)

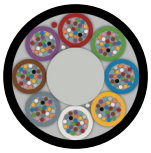
Application: Mini cable for blowing into microducts.

Construction and technical data:

- Loose tubes with 24 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):	10 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.

	144 fibres	192 fibres	288 fibres	576 fibres
Cross-section (not to scale)				
Recommended for microduct dimension (A/I-Ø in mm)	12/8 14/10	14/10 16/12	16/12 20/15	16/12 (UTL) 20/15

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Mini A-DQ2Y nx24 E9 G.657A1/G652D 200µ

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]	Lt1	Dl1	Lt2	Dl2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
072434	Mini A-DQ2Y 4X24	96	0.5	6.6	600	4	2			1.8	2.0	300	38	singlemode
072227	Mini A-DQ2Y 6X24	144	0.5	6.6	600	6	0			1.8	2.0	300	38	singlemode
072435	Mini A-DQ2Y 8X24	192	0.5	7.8	600	8	0			1.8	3.0	300	55	singlemode
073657	Mini A-DQ2Y 8X24 UTL	192	0.5	6.4	600	8	0			1.55		300	55	singlemode
072437	Mini A-DQ2Y 12X24	288	0.5	10	1000	12	0			1.8	5.4 / 3.0	300	90	singlemode
072439	Mini A-DQ2Y 18X24	432	0.5	11.8	1000	9	0	9	6	1.8	3.6 / 3.0	300	108	singlemode
075348	Mini A-DQ2Y 18X24 UTL G.652D/	432	0.5	9.8	1000	9	0	9	6	1.8	3.6 / 3.0	300	83	singlemode
072440	Mini A-DQ2Y 24X24	576	0.5	11.8	1000	9	0	15	0	1.8	3.6 / 3.0	300	108	singlemode
074818	Mini A-DQ2Y 24X24 UTL	576	0.5	9.8	3000	9	0	15	0	1.55	2,5 / 3,0	300	95	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
Dl1	dummies 1st layer
Lt2	Loose tubes 2nd layer
Dl2	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 – 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

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