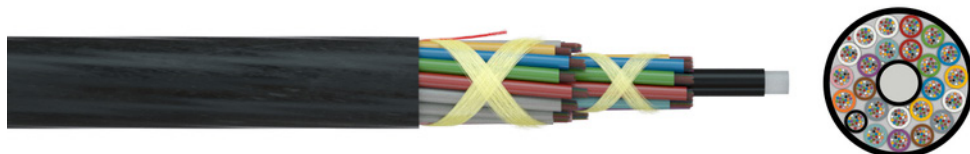


Optical Mini Cable

A-DQ4Y 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 polyamid (PA), if applicable incl. overshathing; 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: Polyamide (PA)

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.

| | 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 | 20/15 |

Mini A-DQ4Y nx24 E9 G.657A1 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/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 @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 | DI1 | Lt2 | DI2 | Ø Lt [mm] | FRP [mm] | p [N] | G [kg] | |
|----------|-------------------|----------------------|---------|--------|---------|-----|-----|-----|-----|-----------|-----------|-------|--------|------------|
| 072441 | Mini A-DQ4Y 4X24 | 96 | 0.5 | 6.2 | 500 | 4 | 2 | | | 1.7 | 1.8 | 500 | 38 | singlemode |
| 072442 | Mini A-DQ4Y 6X24 | 144 | 0.5 | 6.2 | 500 | 6 | 0 | | | 1.7 | 1.8 | 500 | 38 | singlemode |
| 072443 | Mini A-DQ4Y 8X24 | 192 | 0.5 | 7.2 | 1000 | 8 | 0 | | | 1.7 | 2.8 | 500 | 52 | singlemode |
| 072444 | Mini A-DQ4Y 9X24 | 216 | 0.5 | 7.8 | 1000 | 9 | 0 | | | 1.7 | 3.4 / 2.6 | 500 | 61 | singlemode |
| 072445 | Mini A-DQ4Y 12X24 | 288 | 0.5 | 9.4 | 1000 | 12 | 0 | | | 1.7 | 5.0 / 2.8 | 500 | 88 | singlemode |
| 072446 | Mini A-DQ4Y 16X24 | 384 | 0.5 | 11.2 | 1000 | 9 | 0 | 7 | 8 | 1.7 | 3.4 / 2.8 | 500 | 115 | singlemode |
| 072448 | Mini A-DQ4Y 24X24 | 576 | 0.5 | 11.2 | 1000 | 9 | 0 | 15 | 0 | 1.7 | 3.4 / 2.8 | 500 | 115 | 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 – 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 | | | | | | | | | | | | | | |