Optical fibre cable - standard - outdoor
A-DQ(ZN)B2Y 3,0 kN G.652D (HT)

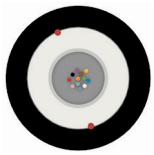
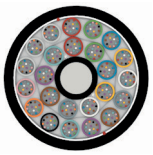
Application: Outdoor cable for universal use.

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- 12/24 fibre cable: Central loose tube
- From 24 fibres: Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), if applicable incl. overs-heathing; dummies if required
- 192, 216 and 288 fibres: 2-layer construction
- Cable strand: Dry, with water-blocking materials
- Strength members / metal-free reinforcement: Glass yarns
- Outer sheath: HDPE, 2 underlying rip cords

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-3-10
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 - +60 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet
Type of installation:	Installation pipe (Multiple cables installation)
Maximum tensile strength (installation), N:	3000 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.

	12 fibres	72 fibres	288 fibres
Cross-section (not to scale)			

A-DQ(ZN)B2Y nx12 E9 G.652D 3.0 kN

Standard: ITU-T G.652D

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

Outer diameter (fibre): 245 ± 10 µm

Cladding diameter (fibre): 125 ± 1 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]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Lt2	Dl2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
072449	Stan-dard	12	1.3	8	3000	1500	1	0			3.5		2000	60	singlemode
073500	Stan-dard	24	1.3	8	3000	1500	1	0			3.5		2000	80	singlemode
072450	Stan-dard	24	1.3	10.5	3000	1500	2	4			2.2	2,4	2000	85	singlemode
072432	Stan-dard	48	1.3	10.5	3000	1500	4	2			2.2	2,4	2000	85	singlemode
072451	Stan-dard	72	1.3	10.5	3000	1500	6	0			2.2	2,4	2000	85	singlemode
072452	Stan-dard	96	1.3	11.7	3000	1500	8	0			2.2	3.8 / 3.0	2000	114	singlemode
072453	Stan-dard	144	1.3	14.6	3000	1500	12	0			2.2	6.8 / 3.3	2000	170	singlemode
072454	Stan-dard	192	1.3	15.5	3000	1500	6	0	10	2	2.2	2,4	2000	190	singlemode
072456	Stan-dard	288	1.3	17.7	3000	1500	9	0	15	0	2.2	4.6 / 3.3	2000	255	singlemode

Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
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