

Fibre optic cable

A/I-DQ(ZN)BH nx12 G.652D (HT)



Application: Outdoor/indoor cable for use in ducts (outdoors) and for exposed laying (indoors).

Construction and technical data:

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

CPR-classification according to EN 50575:	Eca
Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-3-10
Sheathing material:	FRNC-compound
Colour of outer sheath:	black
Cable metal-free:	yes
Permitted storage and transport temperature:	-40 - +60 °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)
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.



A/I-DQ(ZN)BH nx12 E9 G.652D

Standard:	ITU-T G.652D
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Fibre attenuation @1310 nm bare fibre:	≤0.34 dB/km
Fibre attenuation @1550 nm bare fibre:	≤0.20 dB/km
Mode field diameter (MFD) @1310 nm:	9.0 ± 0.4 μm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.6 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 (100 turns Ø50 mm):	≤0.05 dB
Macro bending loss @1625 nm (100 turns Ø50 mm):	≤0.10 dB
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]	Ø [mm]	Fzv [N]	Lt1	DI1	p [N]	G [kg]	
072518	Standard A/I-DQ(ZN)BH 1X12 CT G.652D 1.5 kN OD 6.6 Eca SW	12	6.6	1500	1	0	1000	53	singlemode
072488	Standard A/I-DQ(ZN)BH 2X12 G.652D 3 kN OD 11,7 Eca SW	24	11.7	3000	2	4	1000	140	singlemode
072482	Standard A/I-DQ(ZN)BH 4X12 G.652D 3 kN OD 11,7 Eca SW	48	11.7	3000	4	2	1000	140	singlemode
072489	Standard A/I-DQ(ZN)BH 6X12 G.652D 3 kN OD 10.0 Eca BK	72	10	3000	6	0	1000	140	singlemode
072490	Standard A/I-DQ(ZN)BH 8X12 G.652D 3 kN OD 13 Eca SW	96	13	3000	8	0	1000	175	singlemode
072491	Standard A/I-DQ(ZN)BH 12X12 G.652D 3 kN OD 15,8 Eca SW	144	15.8	3000	12	0	1000	244	singlemode

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