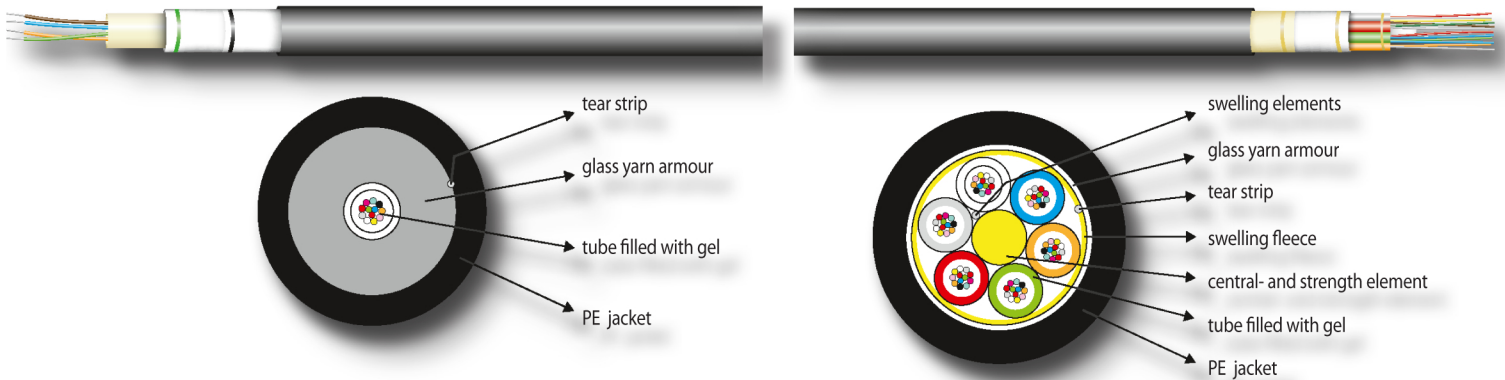


# DATASHEET

## Universal Cable U-DQ (ZN) BH



**Central tube up to 24 Fiber**

**Loose tube 48 up to 144 Fibers**

### Specifications

**Application:**

- Indoor- and outdoor application
- Installation in conduits and shafts
- Primary cabling (Campus), Backbone
- Secondary cabling (vertical): riser area (backbone)

**Characteristics:**

- Universal cable LSZH black, non-metallic, longitudinal water tight
- UV resistant, halogenfree, rodent resistant
- Central/Loose tubes, 250µm coating

### Technical data

**Standards:**

- Flame retardant: IEC 60332-1, Halogenfree: IEC 60754-2, Low smoke: IEC 61034
- Transmission specification: IEC 60793, ITU-T G657A1 biegeunempfindlich , G651
- Cabling: ISO/IEC 11801, EN 50173, Längswasserdicht: IEC 60794-1-2

**Temperature Range:**

- Operation: -20°C ~ 70°C / G657A1 Faser -40°C ~ 70°C
- Transport /Storage: -30°C~ 70°C
- Installation: - 5°C ~ 50°C

### Optical Data

Fiber (µm), Type	62.5/125 Multimode	50/125 Multimode	50/125 Multimode	50/125 Multimode	9/125 Singlemode
Fiber category	OM1	OM2	OM3	OM4	G.657.A1
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310 / 1550 / 1625
Typ. attenuation (db/km):	≤ 3.2 / ≤ 0.9	≤ 2.7 / ≤ 0.7	≤ 2.7 / ≤ 0.8	≤ 2.7 / ≤ 0.8	≤ 0.35 / 0.22 / 0.25
Over filled Launch Bandwidth (OFL = Over Filled Launch) MHz*km	200 / 500	500 / 500	1500 / 500	3500 / 500	- / -
Minimum Effective Modal Bandwidth (EMB) MHz*km	- / -	- / -	2000 / -	4700 / -	- / -



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## Order data

	Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
G657A (OS2) 9/125µ	54404.1	04E ( 1 x 4 ) Singlemode G657A	U-DQ(ZN)BH 04E9/125	7,0 mm	50kg / km	1600 N	140 mm
	54408.1	08E ( 1 x 8 ) Singlemode G657A	U-DQ(ZN)BH 08E9/125	7,0 mm	50kg / km	1600 N	140 mm
	54412.1	12E ( 1 x 12 ) Singlemode G657A	U-DQ(ZN)BH 12E9/125	7,0 mm	50kg / km	1600 N	140 mm
	54424.1	24E ( 1 x 24 ) Singlemode G657A	U-DQ(ZN)BH 24E9/125	7,6 mm	59kg / km	1600 N	150 mm
	54448.1	48E ( 4 x 12 ) Singlemode G657A	U-DQ(ZN)BH 48E9/125	10,6 mm	96kg / km	4000 N	210 mm
	54472.1	72E ( 6 x 12 ) Singlemode G657A	U-DQ(ZN)BH 72E9/125	11,3 mm	114kg / km	4000 N	230 mm
	54496.1	96E ( 8 x 12 ) Singlemode G657A	U-DQ(ZN)BH 96E9/125	13,0 mm	142kg / km	4000 N	260 mm
	544144.1	144E(12x12)SinglemodeG657A	U-DQ(ZN)BH 144E9/125	16,3 mm	216kg / km	5500 N	330 mm
OM4 50/125µ	54504.2	04G ( 1 x 4 ) Multimode OM4	U-DQ(ZN)BH 04G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54508.2	08G ( 1 x 8 ) Multimode OM4	U-DQ(ZN)BH 08G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54512.2	12G ( 1 x 12 ) Multimode OM4	U-DQ(ZN)BH 12G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54524.2	24G ( 1 x 24 ) Multimode OM4	U-DQ(ZN)BH 24G50/125	7,6 mm	59kg / km	1600 N	150 mm
	54548.2	48G ( 4 x 12 ) Multimode OM4	U-DQ(ZN)BH 48G50/125	10,6 mm	96kg / km	4000 N	210 mm
OM3 50/125µ	54504.1	04G ( 1 x 4 ) Multimode OM3	U-DQ(ZN)BH 04G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54508.1	08G ( 1 x 8 ) Multimode OM3	U-DQ(ZN)BH 08G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54512.1	12G ( 1 x 12 ) Multimode OM3	U-DQ(ZN)BH 12G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54524.1	24G ( 1 x 24 ) Multimode OM3	U-DQ(ZN)BH 24G50/125	7,6 mm	59kg / km	1600 N	150 mm
	54548.1	48G ( 4 x 12 ) Multimode OM3	U-DQ(ZN)BH 48G50/125	10,6 mm	96kg / km	4000 N	210 mm
OM2 50/125µ	54204.1	04G ( 1 x 4 ) Multimode OM2	U-DQ(ZN)BH 04G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54208.1	08G ( 1 x 8 ) Multimode OM2	U-DQ(ZN)BH 08G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54212.1	12G ( 1 x 12 ) Multimode OM2	U-DQ(ZN)BH 12G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54224.1	24G ( 1 x 24 ) Multimode OM2	U-DQ(ZN)BH 24G50/125	7,6 mm	59kg / km	1600 N	150 mm
	54248.1	48G ( 4 x 12 ) Multimode OM2	U-DQ(ZN)BH 48G50/125	10,6 mm	96kg / km	4000 N	210 mm
OM1 62,5/125µ	54304.1	04G ( 1 x 4 ) Multimode OM1	U-DQ(ZN)BH04G62,5/125	7,0 mm	50kg / km	1600 N	140 mm
	54308.1	08G ( 1 x 8 ) Multimode OM1	U-DQ(ZN)BH08G62,5/125	7,0 mm	50kg / km	1600 N	140 mm
	54312.1	12G ( 1 x 12 ) Multimode OM1	U-DQ(ZN)BH12G62,5/125	7,0 mm	50kg / km	1600 N	140 mm
	54324.1	24G ( 1 x 24 ) Multimode OM1	U-DQ(ZN)BH24G62,5/125	7,6 mm	59kg / km	1600 N	210 mm



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