

## CLT, Gel-Filled, Dry Core, Non-Metallic Armoured, SJ, LSZH

Design Type U-DQ(ZN-GY)BH Universal

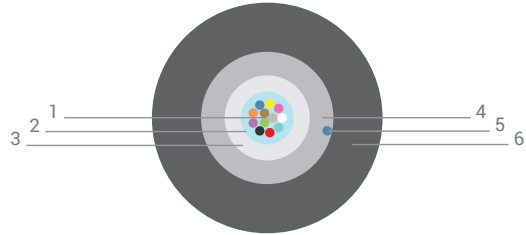
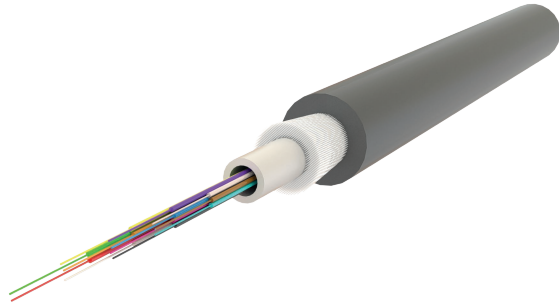


Fig.01 Scale 5:1

### Cable Construction

1	Fiber	SM/MM (250 μ)
2	Tube Filling Compound	Thixotropic Gel
3	Loose Tube	PBT
4	Strength Member	Swellable Glass Yarn
5	Ripcord	Polyester
6	Outer Jacket	UV Resistant LSZH

### Properties

- Metal free indoor and outdoor cable with Gel-filled tube
- Glass yarn strength member
- Halogen free and non-corrosive fire gases
- Low fire load for high safety requirements
- Longitudinal and transversal water resistant cable
- Has a ripcord for easy stripping

### Identification

Print Color/Method	White / Ink-Jet	(length marking 1 m intervals)
Sub-Unit Identification	Tube Coloring and Fiber Coloring; According to coloring code (ANSI/TIA-598)	
Cable Printing	SAMM, Design Type, Fiber Count, Fiber Type, WO Number, Date, Meter	

### Mechanical and Environmental Properties

(All optical measurements at 1550 nm)

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile Force	IEC 60794-1-2-E1	Installation	$\Delta\alpha \leq 0.05$ dB, $\epsilon_f \leq 0.6\%$
		Operation	$\Delta\alpha$ reversible, $\epsilon_f \leq 0.3\%$
Crush Resistance	IEC 60794-1-2-E3	Max. 1500 N	$\Delta\alpha \leq 0.05$ dB, no damage
Impact	IEC 60794-1-2-E4	Wp=1.5J, R:30cm, 3 impacts at different points	$\Delta\alpha \leq 0.05$ dB, no damage on tubes
Repeated Bending	IEC 60794-1-2-E6	R= 20 x D, 100 N, 35 cycles,	No Damage
Torsion	IEC 60794-1-2-E7	L:1 m, 100 N, $\pm 180^\circ$ , 10 cycles,	$\Delta\alpha \leq 0.05$ dB, no damage
Cable Bending	IEC 60794-1-2-E11	R= 20 x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Temperature Cycling	IEC 60794-1-2-F1	-40 to +70 °C	$\Delta\alpha \leq 0.05$ dB, no damage
Water Penetration	IEC 60794-1-2-F5B	3 meter specimen, 1 m water altitude	No leakage in 24 hours
Temperature Range	IEC 60794-1-22 F12	0 to +50 °C	installation
		-20 to +60 °C	operation
		-40 to +70 °C	storage

## Ordering Codes

Order Code	Fiber Count	Tube Count	Tube Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg)
U-DQ(ZN-GY)BH-1D250-1x4-...-	4	1	2.5	6.1	43
U-DQ(ZN-GY)BH-1D250-1x8-...-	8	1	2.5	6.1	43
U-DQ(ZN-GY)BH-1D250-1x12-...-	12	1	2.5	6.1	43
U-DQ(ZN-GY)BH-1D300-1x24-...-	24	1	3.0	6.5	48

\* Available fiber types are G652.D, G657.A1, G657.A2, G651.OM2, G651.OM3, G651.OM4

\* Sample Code: U-DQ(ZN-GY)BH-1D300-1x24-2D-BK