

CLT, Gel-Free, Dry Core, Non-Metallic Armoured, SJ, LSZH

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

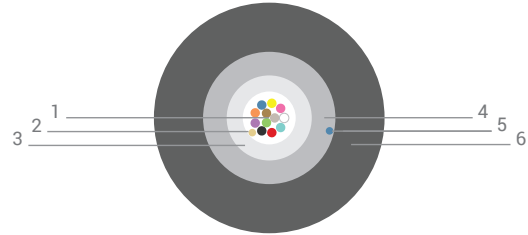
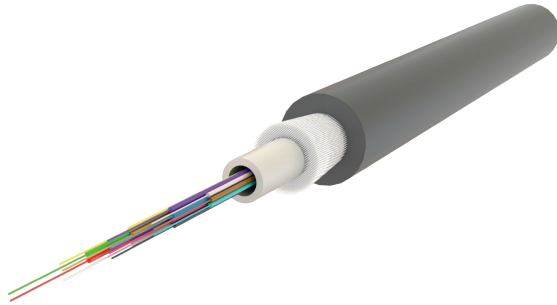


Fig.01 Scale 5:1

Cable Construction

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

Properties

Metal free indoor and outdoor cable with dry tube (Gel-Free)
Glass yarn strength member with ripcord for easy stripping
Halogen free and non-corrosive fire gases
Low fire load for high safety requirements
Longitudinal and transversal water resistant cable
CPR: B2ca, s1 a, d0, a1

Identification

Print Color/Method	Black / Ink-Jet	(length marking 1 m intervals)
Sub-Unit Identification	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 ≤ 1200 N, 1 min.	$\Delta\alpha \leq 0.05$ dB, $\epsilon_f \leq 0.6\%$
		Operation ≤ 600 N, 10 min.	$\Delta\alpha$ reversible, $\epsilon_f \leq 0.2\%$
Crush Resistance	IEC 60794-1-2-E3	Max. 2200 N / 100 mm, 10 min.	$\Delta\alpha \leq 0.05$ 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, ±180°, 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-BQ(ZN-GY)BH-1B250-1x4-...-	4	1	2.5	6.1	45
U-BQ(ZN-GY)BH-1B250-1x8-...-	8	1	2.5	6.1	45
U-BQ(ZN-GY)BH-1B250-1x12-...-	12	1	2.5	6.1	45
U-BQ(ZN-GY)BH-1B300-1x24-...-	24	1	3.0	6.5	50

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

* Sample Code: U-BQ(ZN-GY)BH-1B250-1x12-2D-BK