

## CLT, Gel-Free, Dry Core, Steel Armoured, SJ, LSZH

Design Type U-BQ(ZN-GY)(SR)H Universal

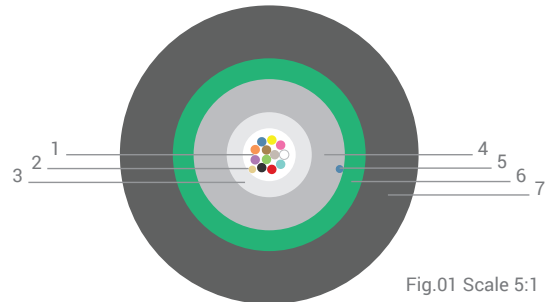
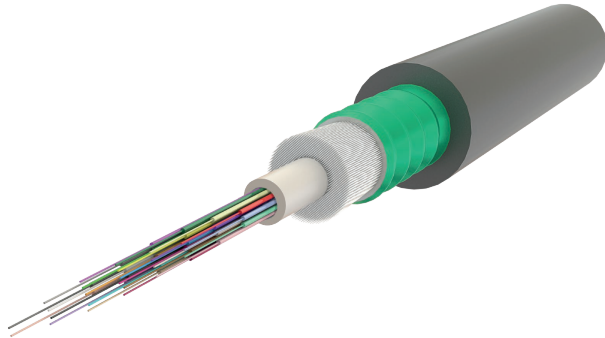
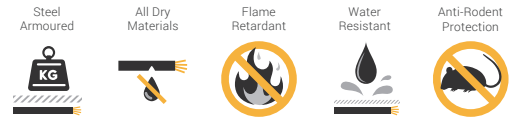


Fig.01 Scale 5:1

### 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	Armoured Material	Corrugated Steel
7	Outer Jacket	UV Resistant LSZH

### Properties

Corrugated Steel Armoured Indoor/Outdoor Cable  
 Glass yarn strength member  
 Dry tube (Gel-Free)  
 Ripcord for easy stripping  
 Halogen free and non-corrosive fire gases  
 Low fire load for high safety requirements  
 Longitudinal and transversal water resistant cable

### Identification

Print Color/Method	White / 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	$\Delta\alpha \leq 0.05$ dB, $\epsilon_f \leq 0.6\%$
		Operation	$\Delta\alpha$ reversible, $\epsilon_f \leq 0.2\%$
Crush Resistance	IEC 60794-1-2-E3	Max. 2200 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	-30 to +60 °C	installation
		-20 to +70 °C	operation
		0 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)(SR)H-1B300-1x4-...-..	4	1	3.0	8.2	90
U-BQ(ZN-GY)(SR)H-1B300-1x8-...-..	8	1	3.0	8.2	90
U-BQ(ZN-GY)(SR)H-1B300-1x12-...-..	12	1	3.0	8.2	90
U-BQ(ZN-GY)(SR)H-1B300-1x24-...-..	24	1	3.0	8.2	90

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

\* Sample Code: U-BQ(ZN-GY)(SR)H-1B300-1x24-2D-BK