

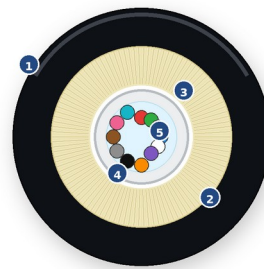
4–12 FIBERS CENTRAL TUBE INDOOR/OUTDOOR TYPE NONMETALLIC ARMORED F.O. CABLE

Faithful redraw based on the original UPCOM datasheet, updated with the approved cleaner product visual style.



Numbered Cable Cross Section

U-D(ZN)BH - Eca / Central Tube Indoor-Outdoor Type Nonmetallic Armored



Component legend

- 1 UV stabilized LSZH-FR outer sheath
- 2 Peripheral glass yarn strength member
- 3 Central loose tube / buffer tube - PC+PBT
- 4 Thixotropic jelly filling compound
- 5 Optical fibers - 4, 6, 8 or 12 fibers

Visual redrawn in the approved cleaner style, technical content follows the original UPCOM datasheet.

Construction Overview

Parameter	Specification
Code designation	U-D(ZN)BH – Eca
Fiber count	4, 6, 8, 12 fibers
Loose tube	PC+PBT, OD 2.50 mm ± 3%
Filling compound	Thixotropic jelly
Peripheral strength member	Glass yarn, 0.5 mm ± 3%
Outer sheath	UV stabilized LSZH-FR compound, thickness 1.00 mm ± 0.1
Cable diameter / weight	5.5 mm ± 0.2 / 30 kg/km

Product visual uses the approved clean render style. Original datasheet sheath-color rules remain valid: yellow for SM, orange for OM1/OM2, turquoise for OM3/OM4 and lime for OM5.

Cable Construction

Section	Parameter	Specification
Number of fibers	Available counts	4 / 6 / 8 / 12
Loose tube	Outer diameter	2.50 mm ± 3%
Loose tube	Material	PC+PBT
Loose tube	Thickness of PC layer	0.250 mm ± 3%
Loose tube	Thickness of PB layer	0.100 mm ± 3%
Loose tube	Type of filling compound	Thixotropic jelly
Peripheral strength member	Material	Glass yarn
Peripheral strength member	Thickness of glass yarn	0.5 mm ± 3%
Outer sheath	Material	UV stabilized LSZH-FR Compound
Outer sheath	Thickness	1.00 mm ± 0.1
Cable dimensions	Cable diameter	5.5 mm ± 0.2
Cable dimensions	Cable weight	30 kg/km

Mechanical Characteristics

Test	Test Standard	Specified Value
Tensile Force	IEC 60794-1-2-E1	1000 N
Cable Bend	IEC 60794-1-2-E11	50 mm
Impact	IEC 60794-1-2-E4	1.5 Nm
Repeated bending	IEC 60794-1-2-E6	R = 30 mm, 100 N load, 1000 cycles
Crush Resistance	IEC 60794-1-2-E3	Max. 200 N/cm.
Torsion	IEC 60794-1-2-E7	Load = 100 N

Environmental Characteristics

Test	Test Standard	Specified Value
Temperature cycling — Operation	IEC 60794-1-2-F1	-20 to +60 °C
Temperature cycling — Storage	IEC 60794-1-2-F1	-40 to +70 °C
Temperature cycling — Installation	IEC 60794-1-2-F1	0 to +50 °C

Identification

Parameter	Specification
Cable marking	1 m \pm 1% intervals in white color with hot foil or ink-jet print.
Identification of cable	Manufacturer <year of manufacture> <number of fibers> FO <type of fibers> <length marking in meter>.
Color of outer sheath	Yellow for SM fibers; Orange for OM1 & OM2 MM fibers; Turquoise for OM3 & OM4 MM fibers; Lime for OM5 MM fibers.
Color of buffer tube	Natural
Color of fibers	1 Red, 2 Green, 3 Yellow, 4 Blue, 5 White, 6 Violet, 7 Orange, 8 Black, 9 Grey, 10 Brown, 11 Pink, 12 Turquoise

1 This inscription is standard imprint and can be changed upon request. 2 Other tube, fiber and sheath colors are optional.

Delivery Information

Parameter	Specification
Number of fibers	4–12 F / 24 F
Drum length / tolerance	4000 m \pm 5%
Drum flange diameter	900 mm
Drum core diameter	580 mm
Outside width	780 mm
Central hole diameter	85 mm

Transmission Characteristics

Parameter	Specification
Transmission data	Refer to fiber data

3 Drum dimensions can change depending on cable length on a drum. Standard delivery length is 4 km. Other delivery lengths are optional.