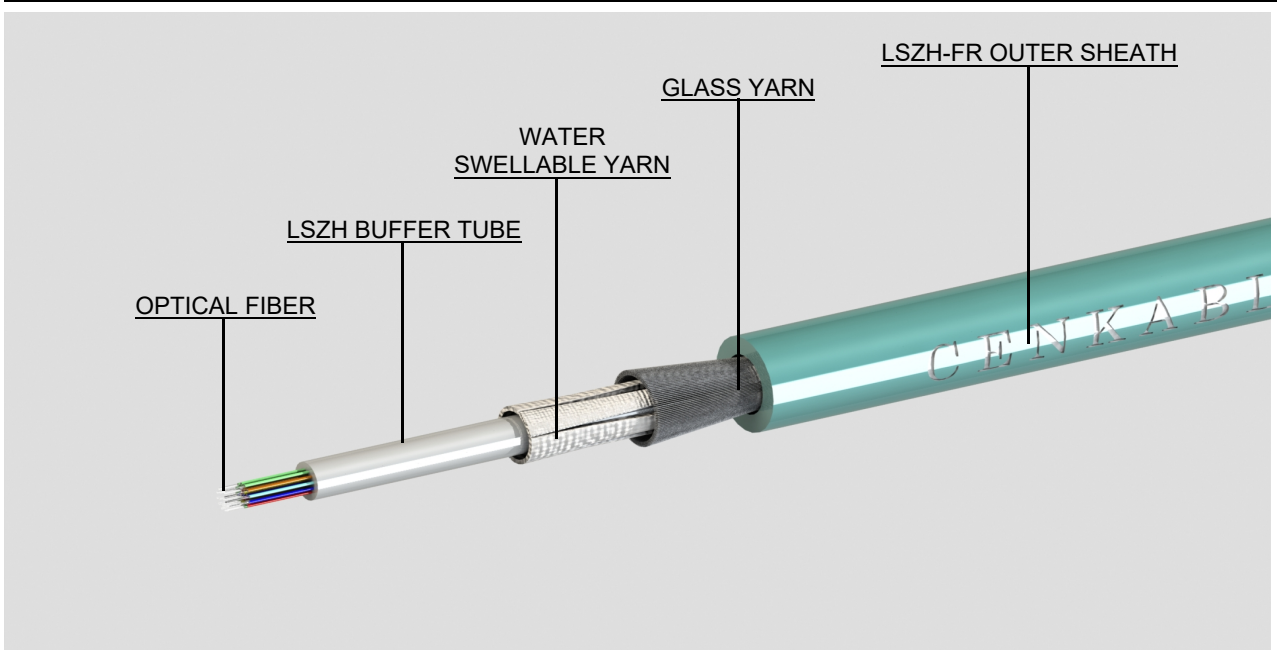


U-DQ(ZN)BH
B2ca-s1a, d0, a1 CPR Class
4-24 FIBERS CENTRAL TUBE INDOOR/OUTDOOR TYPE NONMETALLIC ARMORED
FIBER OPTIC CABLE TECHNICAL SPECIFICATIONS



| - Cable Construction | | | | | |
|----------------------------------|--------------------------------|---|---|--------------|----------------|
| - Number of fibers | 4 | 6 | 8 | 12 | 24 |
| - Central LSZH Loose Tubes | | | | | |
| Outer Diameter | 2,50 mm ± 3% | | | 3,00 ± 3% | |
| Material | | | | | LSZH |
| Thickness of LSZH Tube | 0,35 mm ± 3% | | | 0,4 mm ± 3% | |
| Water seal elements of LSZH Tube | Water swellable yarn | | | | |
| - Peripheral Strength Member | | | | | |
| Material | Glass yarn | | | | |
| Thickness of glass yarn | 0,5 mm ± 3% | | | 0,45 mm ± 3% | |
| - Outer Sheath | | | | | |
| Material | UV stabilized LSZH-FR Compound | | | | |
| Thickness | 1,30 mm ± 0,1 | | | | |
| - Cable diameter | 4 | 6 | 8 | 12 | 24 |
| | 6,1 mm ± 0,2 | | | | 6,5 mm ± 0,2 |
| - Cable weight | 45 ± 10% kg/km | | | | 50 ± 10% kg/km |

| - Mechanical characteristics | | |
|------------------------------|-------------------|-----------------------------------|
| Test | Test Standard | Specified Value |
| - Tensile Force | IEC 60794-1-2-E1 | 1000N |
| - 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 Storage Installation | IEC 60794-1-2-F1 | -20 to + 60 °C -40 to + 70 °C 0 to + 50 °C |

| - Identification | |
|--|---|
| - Cable Marking | 1m ±1% Intervals in white color with hot foil or ink-jet print. |
| - Identification of cable ¹ | ORCA OPTICAL CABLE - CODE - Fiber count Xfiber diameter –Fiber type LSZH RM Drum number – Production date - meter EuroClass B2ca, s1a, d0, a1 EXAMPLE: X OPTICAL CABLE 1234567890 8X50/125 OM4 LSZH RM Drum No. Product Date: 0000 meter EuroClass B2ca, s1a, d0, a1 |
| - Color of outer sheath ² | Yellow RAL 1018 or Black RAL 9005 for SM Fibers, Grey RAL 7004 for, 62,5/125 fibers Orange RAL 2008 for 50/125 fibers Turquoise RAL 6027 for OM3 & OM4 MM fibers, Lime for OM5 fibers. |
| - Color of buffer tube ² | Natural |
| - Color of fibers ² | 1 Red, 2.Green, 3.Blue, 4.Yellow, 5.White, 6.Grey, 7.Brown, 8. Violet, 9. Turquoise, 10. Black, 11. Orange, 12. Pink, 13. Red C, 14. Green C, 15. Blue C, 16. Yellow C, 17. White C, 18. Grey C, 19. Brown C, 20. Violet C, 21. Turquoise C, 22. Natural C , 23. Orange C, 24. Pink C, (C MEANS COLOR CODED FIBERS) |

¹This inscription is standard imprint. It can be changed according to request.

²The other tube, fiber and sheath colors are optional.

| - ³Delivery Information | | |
|---|------------|---------|
| - Drum length/Tolerance ³ | 4000m ± 5% | |
| - Fiber Type | SM | MM |
| - Drum Flange diameter ³ | 900 mm | 1000 mm |
| - Drum core diameter ³ | 580 mm | 700 mm |
| - Outside width ³ | 780 mm | |
| - Central hole diameter | 85 mm | |

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

| - Transmission characteristics |
|---------------------------------------|
| -Refer to fiber data |