

FIBER OPTIC CABLE



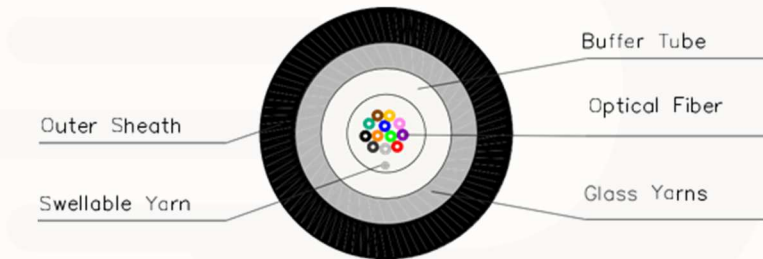
4-24 FIBERS CENTRAL TUBE INDOOR/OUTDOOR TYPE NONMETALLIC ARMORED F.O. CABLE LSZH - B2ca (s1a, d0, a1)

Specifications subject to change without prior notice - For more details please visit www.orca.it



Description

ORCA Optical fiber is used as a physical transmission medium for data communication to provide support for network equipment; supports multiple wavelength channels, in four wavelength SWDM4 or dual wavelength BiDi technology. Ready for 400G Base-SRx in hi-speed datacenter application.



Cable Construction					
Number of fibers	4	6	8	12	(24)
Loose Tubes					
Outer Diameter	2,50 mm ± 3%			(3,00 ± 3%)	
Material	LSZH				
Thickness of PC layer	0,350 mm ± 3%			(0,40mm ±3%)	
Thickness of PB layer	0,100 mm ± 3%				
Type of filling compound	Water swellable yarn				
Peripheral Strength Member					
Material	Glass yarn				
Thickness of glass yarn	0,5 mm ± 3%			(0,45mm ±3%)	
Outer Sheath					
Material	UV stabilized LSZH-FR Compound				
Thickness	1,30 mm ± 0,1				
	4	6	8	12	(24)
Cable diameter	6,1 mm ± 0,2			(6,5mm ±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	1000 N
Crush Resistance	IEC 60794-1-2-E3	Max. 200 N/cm
Impact	IEC 60794-1-2-E4	1,5 Nm
Repeated bending	IEC 60794-1-2-E6	R= 30mm, 100 N load, 1000 cycles
Torsion	IEC 60794-1-2-E7	Load 100N
Cable Bend	IEC 60794-1-2-E11	50 mm

Environmental Characteristics

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

Identification

Cable Marking	1m ±1% Intervals in white color with hot foil or ink-jet print
Identification of cable (1)	<ORCA code> <year of manufacture> <number of fibers> FO <type of fibers> CPR Class <...> <length marking in meter>
Color of loose buffer tube (2)	Natural
- Color of fibers (2)	1. Red, 2. Green, 3. Yellow, 4. Blue, 5. White, 6. Violet, 7. Orange, 8. Black, 9. Grey, 10. Brown, 11. Pink, 12. Turquoise, 13. Red/1stripe, 14. Green/1stripe, 15. Yellow/1stripe, 16. Blue/1stripe, 17. White/1stripe, 18. Violet/1stripe, 19. Orange/1stripe, 20. Natural/1stripe, 21. Grey/1stripe, 22. Brown/1stripe, 23. Pink/1stripe, 24. Turquoise/1stripe
- Color of outer sheath (2)	Yellow RAL 1018 for OS2 Fibers, Grey RAL 7004 for OM1Fibers, Orange RAL 2008 for OM2 Fibers, Turquoise RAL 6027 for OM3 & OM4 Fibers,

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

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

Delivery Information

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

(3) Drum 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 core fiber data

Ordering Information code:**OM2 50/125**

OC-CVF-111120-08	ORCA - Optical Cable loose dry - diel. antird - int/est 8 f.o. 50/125 OM2 LSZH - CPR Class B2ca (s1a, d0, a1)
OC-CVF-111120-12	ORCA - Optical Cable loose dry - diel. antird - int/est 12 f.o. 50/125 OM2 LSZH - CPR Class B2ca (s1a, d0, a1)
OC-CVF-111120-24	ORCA - Optical Cable loose dry - diel. antird - int/est 24 f.o. 50/125 OM2 LSZH - CPR Class B2ca (s1a, d0, a1)

OS2 9/125

OC-CVF-111130-08	ORCA - Optical Cable loose dry - diel. antird - int/est 8 f.o. 9/125 OS2- LSZH - CPR Class B2ca (s1a, d0, a1)
OC-CVF-111130-12	ORCA - Optical Cable loose dry - diel. antird - int/est 12 f.o. 9/125 OS2- LSZH - CPR Class B2ca (s1a, d0, a1)
OC-CVF-111130-24	ORCA - Optical Cable loose dry - diel. antird - int/est 24 f.o. 9/125 OS2- LSZH - CPR Class B2ca (s1a, d0, a1)

OM4 50/125

OC-CVF-111150-08	ORCA - Optical Cable loose dry - diel. antird - int/est 8 f.o. 50/125 OM4 - LSZH - CPR Class B2ca (s1a, d0, a1)
OC-CVF-111150-12	ORCA - Optical Cable loose dry - diel. antird - int/est 12 f.o. 50/125 OM4 - LSZH - CPR Class B2ca (s1a, d0, a1)
OC-CVF-111150-24	ORCA - Optical Cable loose dry - diel. antird - int/est 24 f.o. 50/125 OM4 - LSZH - CPR Class B2ca (s1a, d0, a1)

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