

FIBER OPTIC CABLE



4-12 FIBERS CENTRAL TUBE IND/OUT TYPE NONMETALLIC ARMORED F.O. CABLE LSZH - Eca



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
Loose Tubes				
Outer Diameter	2,50 mm ± 3%			
Material	PC+PBT			
Thickness of PC layer	0,250 mm ± 3%			
Thickness of PB layer	0,100 mm ± 3%			
Type of filling compound	Thixotropic Jelly			
Peripheral Strength Member				
Material	Glass yarn			
Thickness of glass yarn	0,5 mm ± 3%			
Outer Sheath				
Material	UV stabilized LSZH-FR Compound			
Thickness	1,00 mm ± 0,1			
Cable diameter	4	6	8	12
Cable weight	34±10% kg/km			

(*) on request only, a stock 24 fibers version

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

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> <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,
- Color of outer sheath (2)	Yellow RAL 1018 for OS2 Fibers, Gray RAL 7004 for OM1 fibers Orange RAL 2008 for OM1 & OM2 fibers Turquoise RAL 6027 for OM3 & OM4 MM 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%
- Drum Flange diameter (3)	900 mm
- Drum core diameter (3)	580 mm
- Outside width (3)	780 mm
- Central hole diameter	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:**4 f.o.**

OC-CVF-111111-04	ORCA - Optical Cable Loose int/est diel. antird 4 f.o. 50/125um OM2 LSZH - Eca
OC-CVF-111114-04	ORCA - Optical Cable Loose int/est diel. antird 4 f.o. 50/125um OM3 LSZH - Eca
OC-CVF-111115-04	ORCA - Optical Cable Loose int/est diel. antird 4 f.o. 50/125um OM4 LSZH - Eca
OC-CVF-111112-04	ORCA - Optical Cable Loose int/est diel. antird 4 f.o. 62,5/125um OM1 LSZH - Eca
OC-CVF-111113-04	ORCA - Optical Cable Loose int/est diel. antird 4 f.o. 09/125um OS2 LSZH - Eca

6 f.o.

OC-CVF-111111-06	ORCA - Optical Cable Loose int/est diel. antird 6 f.o. 50/125um OM2 LSZH - Eca
OC-CVF-111114-06	ORCA - Optical Cable Loose int/est diel. antird 6 f.o. 50/125um OM3 LSZH - Eca
OC-CVF-111115-06	ORCA - Optical Cable Loose int/est diel. antird 6 f.o. 50/125um OM4 LSZH - Eca
OC-CVF-111112-06	ORCA - Optical Cable Loose int/est diel. antird 6 f.o. 62,5/125um OM1 LSZH - Eca
OC-CVF-111113-06	ORCA - Optical Cable Loose int/est diel. antird 6 f.o. 09/125um OS2 LSZH - Eca

8 f.o.

OC-CVF-111111-08	ORCA - Optical Cable Loose int/est diel. antird 8 f.o. 50/125um OM2 LSZH - Eca
OC-CVF-111114-08	ORCA - Optical Cable Loose int/est diel. antird 8 f.o. 50/125um OM3 LSZH - Eca
OC-CVF-111115-08	ORCA - Optical Cable Loose int/est diel. antird 8 f.o. 50/125um OM4 LSZH - Eca
OC-CVF-111112-08	ORCA - Optical Cable Loose int/est diel. antird 8 f.o. 62,5/125um OM1 LSZH - Eca
OC-CVF-111113-08	ORCA - Optical Cable Loose int/est diel. antird 8 f.o. 09/125um OS2 LSZH - Eca

12 f.o.

OC-CVF-111111-12	ORCA - Optical Cable Loose int/est diel. antird 12 f.o. 50/125um OM2 LSZH - Eca
OC-CVF-111114-12	ORCA - Optical Cable Loose int/est diel. antird 12 f.o. 50/125um OM3 LSZH - Eca
OC-CVF-111115-12	ORCA - Optical Cable Loose int/est diel. antird 12 f.o. 50/125um OM4 LSZH - Eca
OC-CVF-111112-12	ORCA - Optical Cable Loose int/est diel. antird 12 f.o. 62,5/125um OM1 LSZH - Eca
OC-CVF-111113-12	ORCA - Optical Cable Loose int/est diel. antird 12 f.o. 09/125um OS2 LSZH - Eca

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