

FIBER OPTIC CABLE

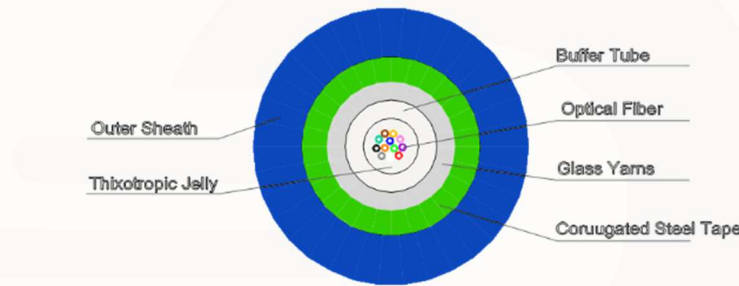


## 4-24 FIBERS CENTRAL TUBE OUTDOOR TYPE STEEL ARMORED F.O. CABLE - HDPE



### Application

For external or direct wiring in the ground, in pipelines, pipes, collectors, on bridges and overpasses



Cable Construction					
Number of fibers	4	6	8	12	(24)
<b>Loose Tubes</b>	1 central tube				
Outer Diameter	2,50 mm ± 3%				(3,00 ±3%)
Material	PC+PBT				
Thickness of PC layer	-				
Type of filling compound	Thixotropic jelly				
<b>Peripheral Strength Member</b>					
Material	Glass yarn				
Thickness of glass yarn	-				
<b>Armor &amp; rodent protection</b>					
Material	corrugated steel tape				
Thickness of corrugated steel tape	-				
<b>Outer Sheath</b>					
Material	HDPE				
Thickness	-				
	4	6	8	12	(24)
Cable diameter	7,2 mm ±0,2				(7,7 mm ±0,2)
Cable weight	57±10% kg/km				(61±10% kg/km)

Specifications subject to change without prior notice - For more details please visit [www.orca.it](http://www.orca.it)

## Mechanical characteristics

Test	Test Standard	Specified Value
Tensile Force Installation	IEC 60794-1-2-E1	500 N
Crush Resistance	IEC 60794-1-2-E3	Max. 1500 N/100mm
Impact	IEC 60794-1-2-E4	3 Nm
Repeated bending	IEC 60794-1-2-E6	R= 20 x D, 10 N load, 30 cycles
Torsion	IEC 60794-1-2-E7	5 cycles $\pm$ 1 turn
Cable Bend	IEC 60794-1-2-E11	With load: 20xD mm Without load: 15xD mm (D = Cable diameter)

## Environmental Characteristics

Test	Test Standard	Specified Value
Temperature cycling	IEC 60794-1-2-F1	Storage -30 to + 70 °C
		Installation -30 to + 70 °C
		Operation -40 to + 70 °C
$\Delta$ dB $\leq$ 0.2 dB/km for SM fibers and $\Delta$ dB $\leq$ 0.5 dB/km for MM fibers.		

## Identification

Cable Marking	1m $\pm$ 1% Intervals in white color with hot 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, 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)	Blue RAL 5015 for all type of 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)	2000 m $\pm$ 5%
- Drum Flange diameter (3)	900 mm
- Drum core diameter (3)	500 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 2 km. Other delivery lengths are optional.

## Transmission characteristics

Refer to core fiber data

**Ordering Information code:****4 f.o.**

OC-CVF-112211-04	ORCA - Optical Cable Loose int/est CST arm 4 f.o. OM2 50/125um PE
OC-CVF-112214-04	ORCA - Optical Cable Loose int/est CST arm 4 f.o. OM3 50/125um PE
OC-CVF-112215-04	ORCA - Optical Cable Loose int/est CST arm 4 f.o. OM4 50/125um PE
OC-CVF-112212-04	ORCA - Optical Cable Loose int/est CST arm 4 f.o. OM1 62,5/125um PE
OC-CVF-112213-04	ORCA - Optical Cable Loose int/est CST arm 4 f.o. OS2 09/125um PE

**6 f.o.**

OC-CVF-112211-06	ORCA - Optical Cable Loose int/est CST arm 6 f.o. OM2 50/125um PE
OC-CVF-112214-06	ORCA - Optical Cable Loose int/est CST arm 6 f.o. OM3 0/125um PE
OC-CVF-112212-06	ORCA - Optical Cable Loose int/est CST arm 6 f.o. OM1 62,5/125um PE
OC-CVF-112213-06	ORCA - Optical Cable Loose int/est CST arm 6 f.o. OS2 09/125um PE

**8 f.o.**

OC-CVF-112211-08	ORCA - Optical Cable Loose int/est CST arm 8 f.o. OM2 50/125um PE
OC-CVF-112214-08	ORCA - Optical Cable Loose int/est CST arm 8 f.o. OM3 50/125um PE
OC-CVF-112215-08	ORCA - Optical Cable Loose int/est CST arm 8 f.o. OM4 50/125um PE
OC-CVF-112212-08	ORCA - Optical Cable Loose int/est CST arm 8 f.o. OM1 62,5/125um PE
OC-CVF-112213-08	ORCA - Optical Cable Loose int/est CST arm 8 f.o. OS2 09/125um PE

**12 f.o.**

OC-CVF-112211-12	ORCA - Optical Cable Loose int/est CST arm 12 f.o. OM2 50/125um PE
OC-CVF-112214-12	ORCA - Optical Cable Loose int/est CST arm 12 f.o. OM3 50/125um PE
OC-CVF-112215-12	ORCA - Optical Cable Loose int/est CST arm 12 f.o. OM4 50/125um PE
OC-CVF-112212-12	ORCA - Optical Cable Loose int/est CST arm 12 f.o. OM1 62,5/125um PE
OC-CVF-112213-12	ORCA - Optical Cable Loose int/est CST arm 12 f.o. OS2 09/125um PE

**24 f.o.**

OC-CVF-112211-24	ORCA - Optical Cable Loose int/est CST arm 24 f.o. OM2 50/125um PE
OC-CVF-112214-24	ORCA - Optical Cable Loose int/est CST arm 24 f.o. OM3 50/125um PE
OC-CVF-112215-24	ORCA - Optical Cable Loose int/est CST arm 24 f.o. OM4 50/125um PE
OC-CVF-112212-24	ORCA - Optical Cable Loose int/est CST arm 24 f.o. OM1 62,5/125um PE
OC-CVF-112213-24	ORCA - Optical Cable Loose int/est CST arm 24 f.o. OS2 09/125um PE