

	CABLE DATASHEET Optical Fiber Cables PKCP – TELEFONICA –	Cable Code: CDS-053A (ISSUE 1) Date: 29/04/02
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Cable Type: 8 – 48 OPTICAL FIBER CABLES FOR AERIAL INSTALLATION (SHOT PROTECTED)

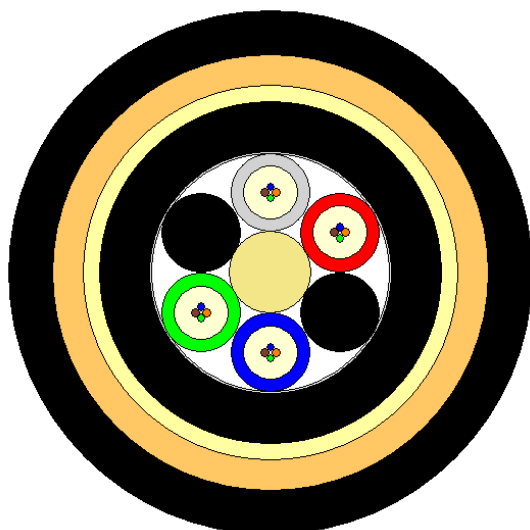


Figure: 16 optical fibers cable

- ❑ Dielectric central strength member (CSM): Fiberglass reinforced plastic
- ❑ Loose Tubes containing optical fibers and full of filling compound
- ❑ Water-swellaable elements (dry core)
- ❑ Polyethylene inner jacket
- ❑ Dielectric reinforcement : aramid yarns
- ❑ Shot resistant aramid tapes helically stranded
- ❑ Polyethylene outer jacket

CABLE DIMENSIONS AND MAIN CHARACTERISTICS

No. of fibers		8	12	16	24	32	48
No. of fibers per tube		2	2	4	4	8	8
No. of tubes		4	6	4	6	4	6
No. of fillers		2	0	2	0	2	0
Loose tube diameter	mm	2.5	2.5	2.5	2.5	2.8	2.8
CSM diameter	mm	2.6	2.6	2.6	2.6	3.0	3.0
Cable diameter	mm	18.0	18.0	18.0	18.0	18.0	18.0
Cable weight	Kg/km	230	230	230	230	230	230

IDENTIFICATION

Fibers color code:

No.	Color	No.	Color	No.	Color	No.	Color
1	Green	3	Blue	5	Slate	7	Brown
2	Red	4	Yellow	6	Violet	8	Orange

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Loose tubes and fillers color code:

4 Tubes cables			
Tube No.	Color	Tube No.	Color
1	White	4	Blue
2	Red	5	Green
3	Black (Filler)	6	Black (Filler)

6 Tubes cables	
Tube No.	Color
1 - 2	White
3 - 4	Red
5 - 6	Blue

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

TEST	STANDARD	VALUE
Tensile Load (fiber elong. $\leq 0.33\%$) (No attenuation increase)	EN 187000 meth. 501	4,000 N
Crush Test	EN 187000 meth. 504	3,000 N
Cable Bend	EN 187000 meth. 513-1	15 * cable OD (6 cycles)
Temperature cycling	EN 187000 meth. 601	-25 to +70°C (6 cycles)
Elasticity Modulus (E)	Theoretical value	$\geq 100 \text{ kN/mm}^2$
Coefficient of Thermal Expansion (α)	Theoretical value	$\leq 3 * 10^{-5} \text{ C}^{-1}$
Watertightness (only in the core)	EN 187000 meth. 605 B	1 m / 14 days
Shot resistance	TELEFONICA Spec. ER.f6.026 / par. 8.6	No pellets in optical core

TRANSMISSION CHARACTERISTICS:

SSM fibers

Attenuation at	1310 nm	$\leq 0.40 \text{ dB/km}$
	1550 nm	$\leq 0.25 \text{ dB/km}$

Other characteristics Acc. ITU-T G652
and Alcatel type 6900

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Cable Sheath marking

ALCATEL - YYYY - NN F.O. 10 - PKCP - LLLL

Where

NN = Number of fibers in cable

YYYY = Manufacturing year

LLLL = Marking length (m)