

Cód. 2005 CABLE Optilan® FTP RÍGIDO Cat.6A LSZH 305m BLANCO



El cable Optilan® FTP rígido, ha sido diseñado para superar los requisitos establecidos por los organismos ISO/IEC, TIA y CENELEC para CAT.6A, para dar soporte a aplicaciones 10 Gigabit Ethernet.

El uso de la pantalla y la cruceta que separa los pares, asegura que los sistemas instalados sean inmunes a los problemas de rendimiento que a veces se encuentran en las redes de cables de cobre de alta frecuencia y velocidad.

Suministro en bobinas de 305m de madera no retornables.

Electrical characteristics

Frecuencia	Characteristi c Impedance Upper limit	Characteristi c Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PS ANEXT	PS AACRF	PD
(MHz)	Zu (Ω)	Zl (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100 m Max)
1	---	---	---	20.0	74.3	72.3	67.8	64.8	67.0	67.0	570.0
4	115.2	86.8	3.8	23.0	65.3	63.3	55.8	52.8	67.0	66.2	552.0
8	112.6	88.8	5.3	24.5	60.8	58.8	49.7	46.7	67.0	60.1	546.7
10	111.9	89.4	5.9	25.0	59.3	57.3	47.8	44.8	67.0	58.2	545.4
16	111.9	89.4	7.5	25.0	56.2	54.2	43.7	40.7	67.0	54.1	543.0
20	111.9	89.4	8.4	25.0	54.8	52.8	41.8	38.8	67.0	52.2	542.0
25	113.0	88.5	9.4	24.3	53.3	51.3	39.8	36.8	67.0	50.2	541.2
31.25	114.1	87.6	10.5	23.6	51.9	49.9	37.9	34.9	67.0	48.3	540.4
62.5	118.4	84.5	15.0	21.5	47.4	45.4	31.9	28.9	65.6	42.3	538.6
100	121.9	82.0	19.1	20.1	44.3	42.3	27.8	24.8	62.5	38.2	537.6
200	128.8	77.6	27.6	18.0	39.8	37.8	21.8	18.8	58.0	32.2	536.5
250	131.6	76.0	31.1	17.3	38.3	36.3	19.8	16.8	56.5	30.2	536.3
300	133.8	74.7	34.3	16.8	37.1	35.1	18.3	15.3	53.3	28.7	536.1
400	138.2	72.4	40.1	15.9	35.3	33.3	15.8	12.8	53.5	26.2	535.8
500	142.1	70.4	45.3	15.2	33.8	31.8	13.8	10.8	52.0	24.2	535.6



Physical characteristics

Structure

Construction	F/UTP
Number of pairs	4 Pairs

Conductor

AWG	23 AWG
Conductor material	Solid bare copper
Conductor dimension	0.565 ±0.02 mm

Insulation

Insulation material	PE
Insulation dimension	1.15 ±0.05 mm
Number colour (Strip marking)	White/Blue(Strip) & Blue White/Orange(Strip) & Orange White/Green(Strip) & Green White/Brown(Strip) & Brown

Cabling

Twisting lay length	≤30mm
Cabling lay length	≤200mm

Filler

Filler material	YES
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Binder

Binder material	Polyester tape
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Shield

Individual shield & material	N/A
Primary overall shield & material	AL-Foil
Secondary overall shield & material	N/A
Shield coverage	100%
Drain wire Nom	0.4 mm solid tinned copper

Outer jacket

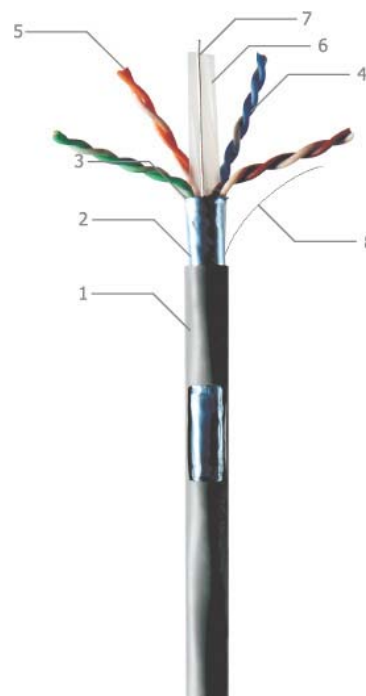
Outer jacket material	LSZH
Outer jacket thickness (Nom)	0.5 mm
Overall nominal dimension	7.3 ±0.3 mm
Outer jacket rip cord	Yes
Outer jacket colour	Per customer request

Mechanical characteristics

Operating temperature range	-20 °C ~ +75 °C
Bulk cable weight	54 kg/km
Max. recommended pulling tension	80 N
Min. bend radius (Install)	8 x O.D.
Outer jacket tensile strength	≥ 9 MPa
Outer jacket elongation	≥ 100%
Outer jacket aging condition	100 °C x 168 hrs
After aging, Tensile strength	≥ 70% of unaging
After aging, Elongation	≥ 50% of unaging
Cold bend	No crack (@ -20°C x 4hrs)

Electrical characteristics

Nom. mutual capacitance	≤5.6 nF/100m (@1kHz)
Pair to ground capacitance unbalance	≤ 1600 pF/km
Nominal velocity of propagation	65%
Max. delay skew	45 ns/100m
Max. conductor DC resistance	95Ω/km (@ 20 °C)
Max. Conductor resistance unbalance	2% (@ 20 °C)
Min. insulation resistance	5000 MΩ·km
Max. operating voltage - UL	300 V



1	Outer jacket
2	AL-Foil
3	Poliéster tape
4	Insulation
5	Conductor
6	Filler
7	Drain wire
8	Rip cord

