

Cód. 2006 CABLE Optilan® SFTP FLEXIBLE Cat.6a LSZH BLANCO



El cable Optilan® SFTP flexible, 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.

Cable idóneo para el montaje de latiguillos de parcheo, de fácil destrenzado y manipulación.

El uso de la pantalla y la separación de 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 500m o al corte.

Electrical characteristics

Frecuencia	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PD
(MHz)	Zu (Ω)	Zl (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
4	115.2	86.8	5.7	23.0	66.3	63.3	63.3	53.0	552.0
8	112.6	88.8	8.0	24.5	61.8	58.8	49.9	46.9	546.7
10	111.9	89.4	8.9	25.0	60.3	57.3	48.0	45.0	545.4
16	111.9	89.4	11.2	25.0	57.2	54.2	43.9	40.7	543.0
20	111.9	89.4	12.6	25.0	55.8	52.8	42.0	39.0	542.0
25	113.2	88.3	14.1	24.2	54.3	51.3	40.0	37.0	541.2
31.25	114.6	87.2	15.8	23.3	52.9	49.9	38.1	35.1	540.4
62.5	120.2	83.2	22.5	20.7	48.4	45.4	32.1	29.1	538.6
100	125.3	79.8	28.7	19.0	45.3	42.3	28.0	25.0	537.6
200	135.7	73.7	41.4	16.4	40.8	37.8	22.0	19.0	536.5
250	140.0	71.4	46.6	15.6	39.3	36.3	20.0	17.0	536.3
300	139.8	71.5	51.4	15.6	38.1	35.1	18.5	15.5	536.1
400	139.8	71.5	60.1	15.6	36.3	33.3	16.0	13.0	535.8
500	139.8	71.5	67.9	15.6	34.8	31.8	14.0	11.0	535.6

Physical characteristics

Structure

Construction	SFTP
Number of pairs	4 Pairs

Conductor

AWG	26 AWG
Conductor material	Stranded bare copper
Conductor dimension	7/0.16 ±0.02 mm

Insulation

Insulation material	HDPE
Insulation dimension	0.89 ±0.05 mm
Number colour (Strip marking)	White/Blue(Stripe) & Blue White/Orange(Stripe) & Orange White/Green(Stripe) & Green White/Brown(Stripe) & Brown

Cabling

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

Filler

Filler material	YES
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Binder

Binder material	Polyester
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Shield

Individual shield & material	N/A
Primary overall shield & material	AL-Foil
Secondary overall shield & material	N/A
Shield coverage	N/A
Drain wire	N/A

Outer jacket

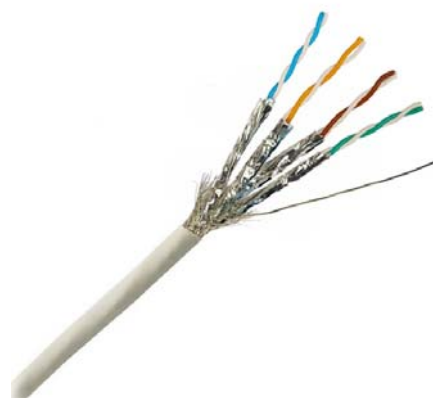
Outer jacket material	LSZH
Outer jacket thickness (Nom)	0.4 mm
Overall nominal dimension	6.3 ±0.3 mm
Outer jacket rip cord	N/A
Outer jacket colour	Per customer request

Mechanical characteristics

Operating temperature range	-20 °C ~ +75 °C
Bulk cable weight	38 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 20 °C)
Min. insulation resistance	5000 MΩ·km
Max. operating voltage - UL	300 V



1	Outer jacket
2	AL-Foil
3	Polyester
4	Insulation
5	Conductor
6	Filler
7	Drain wire