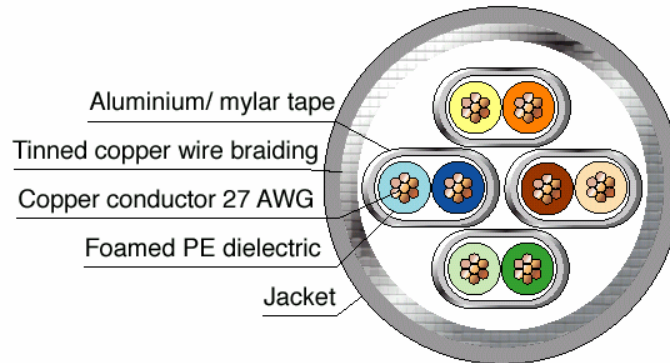


L02002A0115	S/FTP Cat.7 PUR
Patch Cable	100Ω Data Cable IEC 61156-6 CAT7 PATCH



Application	Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; Gigabit-Ethernet; ISDN; FDDI; ATM
Standards	IEC 61156-6
Fire Rating	IEC60332-1; UL 1581 FT2 (horizontal flame test)

Construction

Conductor	Stranded bare copper wire Ø 0.43 mm (AWG 27)
Insulation	Foamed PE, Ø 1.04±0,05 mm
Twisting	2 cores to the pair 1: white, blue 1: white, orange 3: white, green 4: white, brown
Cable lay up	4 pairs with different pitches stranded in circular form
Shielding	Aluminum-foil laminated mylar tape wrapped over twinning, with the aluminum side facing out. Tinned copper wire braiding, normally with min. 60% coverage
Outer jacket	PUR RAL 6018
Outer diameter	6.2 mm ± 0.2 mm
Marking	Cat.7 S/FTP 4x2xAWG27/7 PUR LI02YSC11Y PIMF IEC 60332-1 -40°C ~ +75°C (sequential length in metres)
Weight	39.015 Kg/km

Mechanical Properties

Bending radius	≥ 5xOD
Temperature range,	
during operation	-40°C up to 75°C
during installation	-10°C up to 60°C

Electrical Properties (at 20°C ± 5°C)

DC resistance	max. 18.3 Ω / 100 m at 20 °C
Resistance unbalance	max. 5 % at 20 °C
Insulation resistance (500V)	min. 150 MΩ/Km at 20 °C
Mutual capacitance	nom. 4.6 nf / 100 m at 1 kHz
Capacitance unbalance (pair to ground)	max. 160 pf / 100 m at 1 kHz
Characteristic impedance (1-100 MHz)	100 Ω ± 15 Ω
Nominal velocity of propagation	78 %
Test voltage (DC, 1 min)	750V / 1 min

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Transmission characteristics acc. to IEC 61156-6 Cat.7 (at 20 °C)

Frequency (MHz)	Impedance (Ω)	Attenuation (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)
1	-	-	78	75	78	75
4	100 ± 15	6.6	78	75	78	75
10		9.9	78	75	74	71
16		12.3	78	75	70	67
20		13.8	78	75	68	65
31.25		17.0	78	75	64	61
62.5		23.4	75	72	58	55
100	100 ± 22	28.9	72	69	54	51
125	100 ± 25	31.5	71	68	52	49
200		39.2	68	65	48	45
250		44.5	66	63	46	43
300		48.8	65	62	44	41
600		69.0	61	58	38	35

Frequency (MHz)	Return Loss (dB)	Propagation Delay (ns)	Delay Skew (ns)
1	-	570.00	-
4	23.0	552.00	25
10	25.0	545.38	
16	25.0	543.00	
20	25.0	542.05	
31.25	23.3	540.44	
62.5	20.7	538.55	
100	19.0	537.60	
125	18.2	537.22	
200	16.4	536.55	
250	15.6	536.28	
300	15.6	536.08	
600	15.6	535.47	

Packing

Parts number	Product	Color	Length	Package	Dimensions (cm)
L02002C0072	S/FTP Cat.7 Patch cable	Green RAL6018	1000 ft (305m)	Reel carton	33 × 26.5 × 34
L02002D0072	S/FTP Cat.7 Patch cable	Green RAL6018	100m	Per roll	