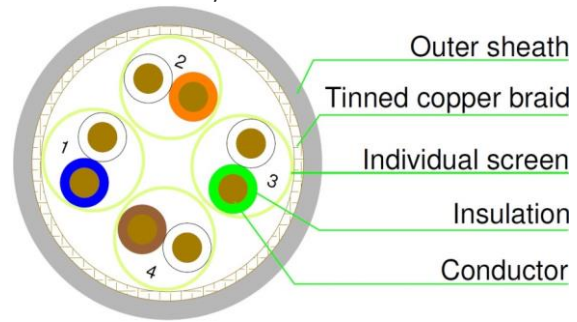


Specification
LAN CABLE : 4P X 23 AWG
S/FTP Cat.7 Cable

Scope: Category 7 cable, also known as Class F cable, is the cable standard for ultra fast Ethernet. It features even stricter specifications for crosstalk and system noise than Cat6A. Cat7 cable has shielding for individual wire pairs and for the cable as a whole. It is rated for transmission of frequencies up to 600Mhz, and is suitable for 10G networks.



Specification IEC 61156-5 、 IEC 60332-1&3
IEC 60332-1 、 IEC 60332-3-24

Cable Construction

No. of Pairs	4
Conductor	
Material	Plain annealed copper wire
Size of conductor(AWG)	23
No. and Dia. of wires(No./mm)	1/0.56
Approx. Conductor Dia.(mm)	0.56
Insulation	
Material	PE (skin-foam-skin)
Approx. Dia. over insulation(mm)	1.4 ± 0.05
Twinning	
	Two coloured cores are twisted together to form a pair
Individual screen(PiMF)	
Material	Al-laminated plastic foil 100% wrapping over each pair
Pairs assembly	
	4 pairs(PiMF) are assembled
Overall Screen	
Type	Braid
Material of braid	Tinned annealed copper wire Applied over the pairs assembly
Dia. of copper wire(mm)	0.12 ± 0.02
Outer Sheath	
Material	LSZH
Thickness(mm)	0.5 ± 0.05
Approx. Dia. of cable(mm)	7.7 ± 0.3
Approx. weight of cable(kg/km)	70.0

Color

Insulation	a- wire	b-wire
Pair 1	White	Blue
Pair 2	White	Orange
Pair 3	White	Green
Pair 4	White	Brown

Outer sheath Grey(RAL 7035)

Performance

1. Material physical characteristics		Insulation	Outer sheath
Test material		PE	LSZH
a) Before aging			
1. Min. tensile strength(Mpa)		—	9
2. Min. elongation		100%	100%
b) After aging			
1. Min. tensile strength(Mpa)		—	70% of unaged
2. Min. elongation		—	50% of unaged
c) Max. shrinkage		5%	—
d) Acid gas emissions		—	IEC 60754
e) Smoke emissions		—	IEC 61034
2. Cable characteristics			
a) Cold Bending			No crack
b) Flame retardant test			IEC 60332-1&3-24
3. Electrical characteristics			
1. Max. D.C. resistance at 20°C(Ω/100m)			9.5
2. Max. D.C. resistance unbalance(%)			2.0
3. Max. capacitance unbalance(800-1000Hz)			1600
4. Min. Insulation Resistance(MΩ•m)			5000
5. Dielectric strength(DC kv/sec)			2.5/2
6. Characteristic impedance at 100MHz(Ω)			100 ± 5%

Freq. (MHz)	Attenuation (dB/100m) Max.	NEXT (dB/100m) Min.	PSNEXT (dB/100m) Min.	ELFEXT (dB/100m) Min.	PSELFEXT (dB/100m) Min.	RL (dB/100m) Min.	P.Delay (ns/100m) Max.
4	3.7	78.0	75.0	78.0	75.0	23.0	552
8	5.2	78.0	75.0	45.9	72.9	24.5	547
10	5.9	78.0	75.0	74.0	71.0	25.0	545
16	7.4	78.0	75.0	69.9	66.9	25.0	543
20	8.3	78.0	75.0	68.0	65.0	25.0	542
25	9.3	78.0	75.0	66.0	63.0	24.3	541
31.25	10.4	78.0	75.0	64.1	61.1	23.6	540
62.5	14.9	75.5	72.5	58.1	55.1	21.5	539
100	19.0	72.4	69.4	54.0	51.0	20.1	538
200	27.5	67.9	64.9	48.0	45.0	18.0	537
400	40.0	63.4	60.4	42.0	39.0	17.3	536
600	50.1	60.7	57.7	38.4	35.4	17.3	535

Contact Information

Address	27 Senoko Way Singapore 758060
Tel	(65) 6367 0107
Fax	(65) 6365 2963
Email	sales@keystone-cable.com
Website	www.keystone-cable.com

Customer Approved by

Prepared by	Checked by	Approved by
Song Kun Hua	Yu Lei	Patrick Li

Spec.No
S-140529-07A