CAT7A 8P 22AWG S/FTP LSZH CPR Dca Duplex LAN CABLE

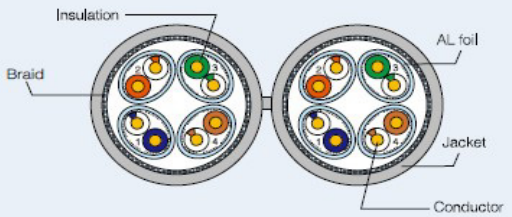
Description

- Rated temperature: 75 °C
- Reference standard: UL444, ANSI/TIA-568.2-D
  ISO/IEC 11801,IEC 61156-5EN50288-9-1;EN50173-1
- Product standard certification:CPR Dca
- Flame test: IEC 60332-3-24
- Oxygen free copper conductor
- Colour-coded Skin Foam Skin PE insulation
- LSZH jacket: RAL5002
- Packaging: Per customer request

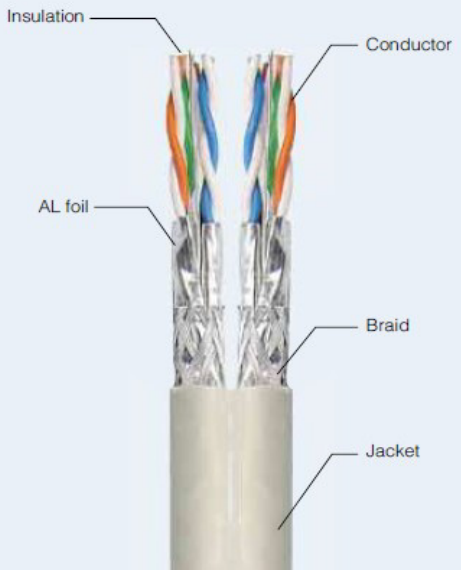
Application

- 100Base-T4
- 100Base-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM
- 10 Gb Ethernet
- acc.to IEEE802.3af PoE,acc.to IEEE802.3at PoE+,acc.to IEEE802.3bt 4PPoE

Product figure



Cross section



Physical characteristics

Structure	Construction	S/FTP
	Number of Pairs	8 Pairs
Conductor	AWG	22 AWG
	Conductor material	Solid bare copper
	Conductor dimension	0.615±0.005mm
Insulation	Insulation material	Skin Foam Skin PE
	Insulation dimension	1.50±0.05mm
	Number colour	1.White/Blue & Blue
	(Ring or stripe or pure marking)	2.White/Orange & Orange
		3.White/Green& Green
		4.White/Brown & Brown
Cabling	Twisting lay length	≤ 30mm
	Cabling lay length	≤ 200mm
Filler	Filler material	N/A
Binder	Binder material	N/A
Shield	Individual shield & material	AL-Foil
	Primary overall shield & material	AL-MG alloy wire braid
	Secondary overall shield & material	N/A
	Shield coverage approx	25%
	Drain wire	N/A
Outer jacket	Jacket material	LSZH
	Jacket thickness nominal	0.50mm
	Overall nominal dimension	(8.0 ±0.30)*(16.60 ±1.00)mm
	Jacket colour	Per customer request
Mechanical characteristics	Operating temperature range	-20 °C ~ +75 °C
	Bulk cable weight approx	132.0kg/km
	Max. recommended pulling tension	110 N
	Min. bend radius (install)	8 x O.D.
	Outer jacket tensile strength	≥ 9.0MPa
	Outer jacket elongation	≥ 100%
	Outer jacket aging condition	100 x 168 hrs
	After aging,tensile strength	≥ 70% of Unaging
	After aging,elongation	≥ 50% of Unaging
	Cold bend (static)	No Crack (@ -20 °C x 4hrs)
Electrical Characteristics	Nom. mutual capacitance	≤ 5.6 nF/100m (@1kHz)
	Pair to ground capacitance unbalance	≤ 160 pF/100m
	Nominal velocity of propagation	76%
	Max. delay skew	25 ns/100m
	Max. conductor DC resistance	9.5 Ω/100m (@ 20 °C)
	Max. conductor resistance unbalance	2% (@ 20 °C) within a pair
	Min. insulation resistance	5000 MΩ.km
	Max. operating voltage - UL	300 V
	Dielectric strength	2,5 kV d.c. for 2 s
	(Conductor/conductor,	Or 1,0 kV d.c. for 1 min
	conductor/screen)	

Goobay® by Wentronic GmbH
Pillmannstraße 12 | 38112 Braunschweig | Germany
cs@wentronic.com

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Cable Jacket Marking

Duplex Category 7A S/FTP LSZH 4x2x22 AWG 100Ω 1000 MHz ISO/IEC 11801, IEC 61156-5, UL444, ANSI/TIA-568-C.2 #V10104# mm|yyyy
Wentronic GmbH | Pillmannstraße 12 | 38112 | Braunschweig Germany +
Meter counter ## order no ## CPR Dca

Electrical Characteristics

Frequency	Character impedance upper limit	Character impedance lower limit	RL	ATT	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PD
(MHz)	(Ω)	(Ω)	(dB Min)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
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4	115.2	86.8	23.0	3.75	78.0	75.0	78.0	75.0	552.0
8	112.6	88.8	24.5	5.22	78.0	75.0	77.2	74.2	546.7
10	11.9	89.4	25.0	5.82	78.0	75.0	75.3	72.3	545.4
16	111.9	89.4	25.0	7.34	78.0	75.0	71.2	68.2	543.0
20	111.9	89.4	25.0	8.21	78.0	75.0	69.3	66.3	542.0
25	112.9	88.5	24.3	9.18	78.0	75.0	67.3	64.3	541.2
31.25	114.1	87.7	23.6	10.26	78.0	75.0	65.4	62.4	540.4
62.5	118.3	84.5	21.5	14.57	78.0	75.0	59.4	56.4	538.6
100	121.9	82.0	20.1	18.53	75.4	72.4	55.3	52.3	537.6
150	125.7	79.6	18.9	22.82	72.8	69.8	51.8	48.8	536.9
200	128.8	77.6	18.0	26.47	70.9	67.9	49.3	46.3	536.5
250	131.5	76.0	17.3	29.73	69.4	66.4	47.3	44.3	536.3
300	131.6	76.0	17.3	32.69	68.2	65.2	45.8	42.8	536.1
350	131.6	76.0	17.3	35.44	67.2	64.2	44.4	41.4	535.9
400	131.6	76.0	17.3	38.01	66.4	63.4	43.3	40.3	535.8
500	131.6	76.0	17.3	42.76	64.9	61.9	41.3	38.3	535.6
550	131.6	76.0	17.3	44.97	64.3	61.3	40.5	37.5	535.5
600	131.6	76.0	17.3	47.10	63.7	60.7	39.7	36.7	535.5
700	131.6	76.0	17.3	51.13	62.7	59.7	38.4	35.4	535.4
800	131.6	76.0	17.3	54.92	61.9	58.9	37.2	34.2	535.3
1000	131.6	76.0	17.3	61.93	60.4	57.4	35.3	32.3	535.1
1200	131.6	76.0	17.3	68.36	59.2	56.2	33.7	30.7	535.0

Remark :
1>Cable that meet the requirements of the template are not required to be measured for return loss; alternately cables that meet the return loss requirements are not required to be measured for characteristic impedance.
2>* If FEXT loss is greater than 90 dB, EL FEXT loss may not be calculated.
3>The cable performance between 1000 MHz and 1200 MHz is achieved by design only and it is therefore not necessary to test for this performance above 1000MHz.