Structured Cable Products
Quality Installations Deserve Quality Products

PRODUCT SPECIFICATIONS
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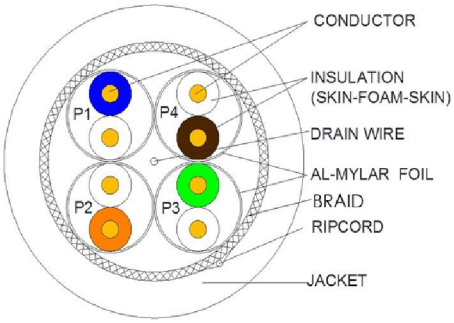
SCP **PART#:** CAT7-LSZH	**DESCRIPTION:** CATEGORY 7 - 10GBASE-T 1000 MHz 23 AWG SOLID 4PR S/FTP, OVERALL TC BRAID, EA/PR AL-FOIL, ISO/IEC 11801 ED2 CLASS F, EN 50173-1, LSZH JKT - ICE BLUE- 1000 FT/ 305 M SPOOL	
Edition B	Est.Date 2013/03/12	Rev. Date 2013/07/24
Approval	Checked ANDREW	Finish JENNIFER



Core:
P1: W hite/Blue
P2: W hite/Orange
P3: W hite/Green
P4: W hite/Brown

Standards:

IEC/ISO 61156-5
ISO/IEC 11801 Ed2 CLASS F
EN50575：2014 REACTION TO FIRE CLASS Eca

Application:

Suitable for structured premises cabling
For transmission of digital and analogue voice and data signals.
Especially suitable for all Class F applications.
ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T,Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3)
Token Ring4/16Mbit/s,TP-PMD/TP/DDI 125Mbit/s,ATM 155Mbit/s. (IEEE 802.5)

Construction Characters:

Conductor	Material	Solid Bare Copper
	Size	0.58+/-0.008mm
Insulation	Material	PE(Skin-Foam-Skin)
	Diameter	1.40+/-0.05mm
	AVG. Thickness	0.41+/-0.05mm
Assembly	Direction	S
	No. of Insulation	4 Pair
Shielding	Material	Al-Foil Screneed
Drain wire	Material	0.16±0.002mm/7C TC
Braid	Material	Tinned copper 16*7*0.10TC
Jacket	Material	LSZH
	Diameter	8.1+/-0.3mm
	AVG. Thickness	0.60+/-0.1mm
	Color	ICE BLUE(#283C)
	Marking Color	BLACK

Electrical Characters:

1.Impedance	4 - 100MHz 100±15 (ohms) 100 - 200MHz 100±22 (ohms) 200 - 1000MHz 100±32 (ohms)
2. Max. Conductor DC Resistance	20℃ 84(ohms/km)
3.Resistance unbalance (%)	max 2.5
4.Pair-to-Ground Capacitance Unbalance	330 (pF/100m)
5.Nominal Velocity of Propagation	(NVP):74%
6.Transfer Impendance	Max10 mohms/m@100MHz
7 Coupling Attenuation	Min 80 dB
8.Installation temperature	0~50℃
9.Operation temperature	-20~60℃

Packaging:

Approx. Weight(kg)	22
Approx. Dimension(mm)	37*37*32
Package	305m/wooden reel
Packages per Pallet	27

Marking:
STRUCTURED CABLE PRODUCTS - P/N: CAT7-LSZH -- CAT7 10GBASE-T 23AWG SOLID 4PR S/FTP LSZH JKT VERIFIED TO ISO/IEC 11801:2002 CATEGORY 7/CLASS F CE EU RoHS ZONE/JACK A B C D E 0 1 2 3 4 5 6 7 8 9 xxxFT

Transmission Characteristics

Frequency	RL		IL		Propagation Delay		Delay Skew	
	Specified(Min)	Typical	Specified(Max)	Typical	Specified(Max)	Typical	Specified(Max)	Typical
(MHz)	(dB)	(dB)	(dB)	(dB)	(ns)	(ns)	(ns)	(ns)
1	20.0	22.0	2.1	2.1	570	540	25.0	18.0
4	23.0	25.0	3.7	3.7	552	522	25.0	18.0
8	24.5	26.5	5.2	5.2	547	517	25.0	18.0
10	25.0	27.0	5.9	5.9	545	515	25.0	18.0
16	25.0	27.0	7.4	7.2	543	513	25.0	18.0
20	25.0	27.0	8.3	8.1	542	512	25.0	18.0
25	24.3	26.3	9.3	9.1	541	511	25.0	18.0
31.25	23.6	24.6	10.4	10.2	540	510	25.0	18.0
62.5	21.5	22.5	14.9	14.7	539	509	25.0	18.0
100	20.1	21.1	19.0	18.8	538	508	25.0	18.0
200	18.0	19.0	27.5	27.0	537	507	25.0	18.0
250	17.3	18.3	31.0	30.5	536	506	25.0	18.0
300	17.3	18.3	34.2	33.7	536	506	25.0	18.0
400	17.3	18.3	40.0	39.5	536	506	25.0	18.0
500	17.3	18.3	45.3	44.8	536	506	25.0	18.0
600	17.3	18.3	50.1	49.6	535	505	25.0	18.0
700	16.6	17.6	56.6	56.1	535	505	25.0	18.0
800	16.1	17.1	60.9	60.4	535	505	25.0	18.0
900	15.5	16.5	65.0	64.5	535	505	25.0	18.0

Frequency	NEXT		PSNEXT		ELFEXT		PSELFEXT	
	Specified(Min)	Typical	Specified(Min)	Typical	Specified(Min)	Typical	Specified(Min)	Typical
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
1	78.0	88.0	75.0	84.0	78.0	84.0	75.0	80.0
4	78.0	88.0	75.0	84.0	78.0	84.0	75.0	80.0
8	78.0	88.0	75.0	84.0	77.2	84.0	74.2	80.0
10	78.0	88.0	75.0	84.0	75.3	84.0	72.3	80.0
16	78.0	88.0	75.0	84.0	71.2	84.0	68.2	80.0
20	78.0	88.0	75.0	84.0	69.3	84.0	66.3	80.0
25	78.0	88.0	75.0	84.0	67.3	84.0	64.3	80.0
31.25	78.0	88.0	75.0	84.0	65.4	74.0	62.4	70.0
62.5	75.5	82.5	72.5	78.5	59.4	68.5	56.4	64.5
100	72.4	78.4	69.4	74.4	55.3	64.4	52.3	60.4
200	67.9	72.9	64.9	68.9	49.3	58.9	46.3	54.9
250	66.4	72.4	63.4	68.4	47.3	58.4	44.3	54.4
300	65.2	71.2	62.2	67.2	45.8	54.3	42.8	51.3
400	63.4	69.4	60.4	65.4	43.3	49.4	40.3	46.4
500	61.9	67.9	58.9	63.9	41.3	48.9	38.3	45.9
600	60.7	66.7	57.7	62.7	39.7	45.7	36.7	42.7
700	59.7	65.7	56.7	61.7	38.4	44.8	35.4	41.8
800	58.9	64.9	55.9	60.9	37.2	44.2	34.2	41.2
900	58.1	64.1	55.1	60.1	36.2	43.1	33.2	40.1

Note: The above transmission performance for the 100M, 20 ± 2 ℃ under the conditions tested