

Cat7 S/FTP Cable

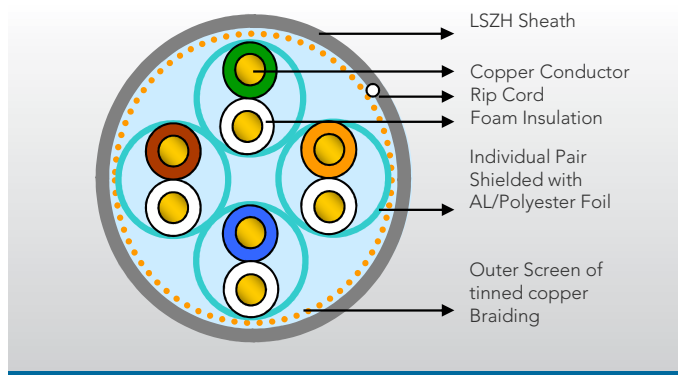
PRODUCT APPLICATION

- All Ethernet applications which includes
 - 10/100/1000 Base T or 1000 Base TX
 - 10 G Base – T
 - Voice, Data , CATV & All sharing application up to 600 MHz
- Complied to ISO/IEC 11801, Class F cabling, IEC 61156-5



CONSTRUCTION

Conductor	: 23 AWG Solid bare Copper
Insulation	: Skin-Foam-Skin Polyethylene
Pairs	: 2 Insulated conductors twisted together
Shield	: Individual Pair Shielded with Aluminum / Polyester Foil
Overall Shield	: Tinned Copper Braiding
Braiding Coverage	: 30% nominal
Sheath	: LSZH
Cable Diameter	: 7.4 ± 0.3 mm



MECHANICAL CHARACTERISTICS

Bending Radius	: min 8 x Cable Diameter
	at $-20^{\circ}\text{C} \pm 1^{\circ}$
Pulling Force	: 11.5 Kgs
Temperature Range	
Installation	: 0° to $+50^{\circ}\text{C}$
Operation	: -20° to $+70^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS

D.C Loop Resistance	: < 21 W/100m
Mutual Capacitance	: < 5.6 nF/100m
Resistance Unbalance	: 2% Max
Capacitance Unbalance	: 330 pF/100m
Delay Skew	: < 30 nS

COLOUR CODE

<u>PAIR NO</u>	<u>COLOUR</u>
1-2	Orange/White & Orange
3-6	Green/White & Green
4-5	Blue/White & Blue
7-8	Brown/White & Brown

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TRANSMISSION CHARACTERISTICS

Transmission Characteristics-100m

Frequency (MHz)	Insertion Loss Max.(db/100 m)	PR- PR Min. NEXT (db)	Min. PSNEXT (db)	Min. RL (DB)	Min. ELFEXT (db)	Min. PSELFEXT (db)
1	2.0	78.0	75.0	20	--	--
4	3.7	78.0	75.0	23.0	78.0	75.0
10	5.9	78.0	75.0	25	75.3	72.3
20	8.3	78.0	75.0	25	69.3	66.3
31.25	10.4	78.0	75.0	23.6	65.4	62.4
62.5	14.9	75.5	72.5	21.5	59.4	56.4
100	19.0	72.4	69.4	20.1	55.3	52.3
250	31.0	66.4	63.4	17.3	47.3	44.3
300	34.2	65.2	62.2	17.3	45.8	42.8
400	40.0	63.4	60.4	17.3	43.3	40.3
500	45.3	61.9	58.9	17.3	41.3	38.3
600	50.1	60.7	57.7	17.3	39.7	36.7

FIRE PROPERTIES

Flame Retardant - IEC 60332-1 Complies to Euro Class Eca
Acid Gas Emission Test – IEC 60754 – 1 & 2
Smoke Density Test – IEC 61034-2

CABLE FEATURES

- * Individual Foil shield gives higher protection against cross talk
- * Overall Foil shield reduces EMI

CONNECTION SYSTEM

Compatible with all common systems according to ISO/IEC 11801 , IEC 61156-5

ORDERING INFORMATION

MODEL NAME	DESCRIPTION
NCB-C7SFGRR-305-LS	Cat.7 S/FTP CABLE,LSZH,305MTR