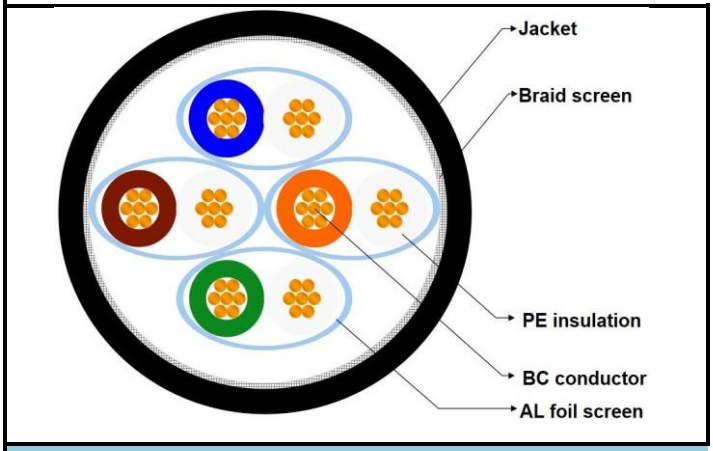
LAN CABLE S/FTP Cat.8

CABLE CROSS-SECTION:



MANUFACTURER:

LUGGAR
Advanced Communication Solutions

File No.:	GS20220022280712	Date:	02/22/2022
Designed by:	Cindy	Checked by:	Zhihu Zhao
Confirmed by:	John Han	Approved by:	Tom

REFERENCE STANDARD

TIA/EIA568B.2
IEC/ISO11801

APPLICATION:

Primary(Campus), Secondary(Riser), Tertiary(Horizontal)
IEEE802.3: 10 Base-T ; 100 Base-T ; 1000 Base-t ; 10G Base-t ; 40G Base-T
IEEE802.5 16MB ; RDSI/ISDN; 100 Mbps TPDDI; 155 Mbps ATM

CABLE CONSTRUCTION

CONDUTCTOR:	Stranded bare copper
	O.D.: 7/0.16±0.008mm
INSULATION:	PE
	O.D.: 1.0±0.05mm S-F-S PE
	4 twisted pairs: Orange/white; Blue/white;
	Green/white; Brown/white;
PAIRS SCREEN:	4×AL foil
CENTER CROSS:	/
PET :	/
DRAIN WIRE:	/
AL FOIL SCREEN:	/
BRAIDING SCREEN:	80/0.12mm AL-MG
RIP CORD:	/
JACKET:	Black PVC
	O.D.: 6.0±0.2mm
	Thickness: 0.6±0.1mm

Electrical Characteristics(20℃)

Resistance unbalance	≤ 2%
Insulation resistance	≥150 MΩ/km
Capacitance	56pF/m
Capacitance unbalance	≤70 pF/m
Characteristic impedance	1-600MHz: (100±25) Ω
Nominal velocity of	≥Approximate 62%
Propagation delay	≤537 ns/30m @ 2000MHz
Delay skew	Nominal 4.2 ns/30m, 1-2000 MHz
Test voltage(DC, 1 min)	1000v

CABLE MARKING:

AS PER CUSTOMER'S REQUEST

Mechanical Characteristics:

FREQUENCY(MHz)	Att (db/30m)	RL (db)	Zin (Ω)	Dop(ns/30m)	NEXT(db@30m)	PSNEXT(db@30m)
1	2.8	20	100±15	570	78	75
4	5.3	23	100±15	552	78	75
10	8.5	25	100±15	545.38	78	75
16	10.8	25	100±15	543	78	75
20	12.95	25	100±15	542.05	78	75
31.25	15.5	23.33	100±15	540.44	78	75
50	20.65	21.58	100±15	539.09	76.92	73.92
62.5	22.8	20.74	100±15	538.55	75.46	72.46
100	28.45	18.99	100±15	537.6	72.4	69.4
125	30.8	18.16	100±15	537.22	70.95	67.95
200	36.83	16.4	100±15	536.55	67.88	64.88
250	41.2	15.6	100±15	536.28	66.43	63.43
300	46.65	15.6	100±25	536.08	65.24	62.24
350	49.5	15.6	100±25	535.92	64.24	61.24
400	53.75	15.6	100±25	535.8	63.37	60.37
450	56.6	15.6	100±25	535.7	62.6	59.6
500	62.32	15.6	100±25	535.61	61.92	58.92
550	66.28	15.6	100±25	535.54	61.29	58.29
600	67.5	15.6	100±25	535.47	60.73	57.73
750	70.75	15.6	100±25	535.3	60.21	57.21
900	74.35	15.6	100±25	535.1	60.03	56.97
1000	77.6	15.6	100±25	534.9	59.86	56.6
1200	79.32	15.6	100±25	534.6	59.43	56.12
1500	81.65	15.6	100±25	534.5	59.09	55.79
2000	84.5	15.6	100±25	534.4	58.8	55.13

PACKING DETAILS

CABLE TYPE	PACKAGE
S/FTP Cat8	AS PER CUSTOMER'S REQUEST