GIGALAN AUGMENTED CAT 7 S/FTP LSZH

Product Type	LAN Cable
Product Family	GigaLan Augmented
Construction	RoHS Compliant Category 7 S/FTP LSZH

General Characteristics

Features	4 pairs twisted cable, using solid bare copper, 23 AWG, insulated with a high density polyethylene. Each pair is individually shielded by an aluminum foil tape. A solid tinned copper braid is applied over the cable core. External jacket using LSZH - low smoke zero halogen compound.
Installation Environment	Internal
Operation Environment	Non heavy
Compatibility	All FCS (Furukawa Cabling System) products
Standards Compliance	IEC 60332, ISO/IEC 11801 and EN 50173-1 CATEGORY 7

Certifications

ETL Verified	101177493CRT-001

Constructive characteristic

Conductor	Solid bare copper with nominal diameter 23AWG.
Insulation	Foamed Polyethylene. Insulated conductor nominal diameter: 1.4 mm
Insulation Resistance	5000 MΩ.km
Number of Pairs	4 pairs, 23AWG
Pair	Each conductor is identified according to the following color sequence.

Color Codes

Pair	Insulation Color "A"	Insulation Color "B"
1	Blue	White / Blue Stripe
2	Orange	White / Orange Stripe
3	Green	White / Green Stripe
4	Brown	White / Brown Stripe

Cabling	All individually shielded pairs are assembled, making the cable core.
Ripcord	With ripcord

Shield	Over each single pair an aluminum foil tape (Al/PET) is applied with its conductive side facing outwards. The cable core is covered by a solid tinned copper braid.
Sheath	LSZH compound, flame retardant, suitable to meet the cable flame rating class
Nominal Diameter	Nominal diameter (O.D): 7.8mm
Color	Standard colors: Green and Gray
Cable Weight	61kg/km
Physical Characteristics	
Cable Flammability Rating	**LSZH**: Cable shall comply with IEC 60332 Part 3-25: "Test for vertical flame spread of vertically mounted bunched wires or cables" **LSZH-1**: Cable shall comply with IEC 60332 Part 1-2: "Test for vertical flame propagation for a single insulated wire or cable"
Installation Temperature	0°C up to 50°C
StorageTemperature	-40°C up to 70°C
Operation Temperature	-20°C up to 60°C
Eletrical Characteristics	
Maximum Unbalance Resistance	2%
Conductor Max. DC Resistance at 20°C	73.2 Ω/km
Maximum Mutual Capacitance 1kHz	56 pF/m
Max. Unbalance Capacitance Pair x Ground	1.6 pF/m
Maximum Delay Skew	25 ns/100 m
NVP	65%
Transfer Impedance	Transfer Impedance shall be in accordance with Grade 1 at IEC 61156-5 and shall not exceed the values shown in Table below at the discrete frequencies indicated.

Frequency	Maximum surface Transfer Impedance
(MHz)	(mΩ/m)
1	< 10
10	< 10
30	< 30
100	< 100

Transmission Performance

Freq, MHz	Imput Impedance, Ohms	Attenuation, max dB/100m	NEXT, min dB	PS NEXT, min dB	ACRF, min dB	PS ACRF, min dB	RL, min dB	TCL, min dB	Prop Delay, max dB
1	-	-	78,0	75,0	78,0	75,0	-	40,0	-
4	100 +/- 15	3,7	78,0	75,0	78,0	75,0	23,0	34,0	552
10	100 +/- 15	5,9	78,0	75,0	74,0	71,0	25,0	30,0	545
16	100 +/- 15	7,4	78,0	75,0	69,9	66,9	25,0	28,0	543
20	100 +/- 15	8,3	78,0	75,0	68,0	65,0	25,0	27,0	542
25	100 +/- 15	9,3	78,0	75,0	66,0	63,0	24,3	26,0	541
31	100 +/- 15	10,4	78,0	75,0	64,1	61,1	23,6	25,1	540
63	100 +/- 15	14,9	75,5	72,5	58,1	55,1	21,5	22,0	539
100	100 +/- 15	19,0	72,4	69,4	54,0	51,0	20,1	20,0	538
155	100 +/- 22	24,0	69,5	66,5	50,2	47,2	18,8	18,1	537
200	100 +/- 22	27,5	67,9	64,9	48,0	45,0	18,0	17,0	537
250	100 +/- 25	31,0	66,4	63,4	46,0	43,0	17,3	-	536
300	100 +/- 25	34,2	65,2	62,2	44,5	41,5	17,3	-	536
600	100 +/- 25	50,1	60,7	57,7	38,4	35,4	17,3	-	535

Marking

FURUKAWA GIGALAN AUGMENTED CAT. 7 S/FTP 23AWGX4P LSZH 75°C VERIFIED TO ISO/IEC 11801 EN 50173-1 CAT 7 FISA ---- AAMMDDHHmm JNN {1}m

Where:

AAMMDDHHmm: AA-year; MM- month; DD- day; HH- hour; mm- minute

JNN: Batch Number

{1} - decreasing sequential length marking starting from 305 m to 001 m

Package

Plywood reel

Standard Lengh

305 meters