TECHNICAL SPECIFICATION 2715 - V 9 (26/01/2017)

GIGALAN AUGMENTED CAT.7A S/FTP LSZH



1/3

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ELECTRIC

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TECHNICAL SPECIFICATION 2715 - V 9 (26/01/2017)

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	Yes								
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 suitable to meet the cable flame rating class								
Nominal Diameter	7.9 mm								
Color	Green - reference Munsell 5G 6/10 to 5G 5/10 Gray - reference RAL 7047 Yellow - reference Munsell Centroid 5Y 8.5/12								
Physical Characteristics									
Cable Flammability Rating	LSZH IEC 60332-3 : comply with IEC 60332 Part 3-25: "Test for vertical flame spread of vertically mounted bunched wires or cables"								
Installation Temperature	0°C up to	50°C							
StorageTemperature	-40 ⁰ C up 1	to 70°C							
Operation Temperature	-20 °C up	to 75 ℃							
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	Delay Skew 25 ns/100 m								
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TECHNICAL SPECIFICATION 2715 - V 9 (26/01/2017)

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

Performance

Freq., MHz	Att., max dB	NEXT, min dB worst pair	PS NEXT, min dB worst pair	ELFEXT, min dB worst pair	PS ELFEXT, min dB worst pair	Prop Delay, max dB	RL, min dB	Charact. Impedance Upper limit, Ohms	Charact. Impedance, Lower limit, Ohms	Coupling Att., min dB
4	3.7	78.0	75.0	78.0	75.0	552.0	23.0	115.2	86.8	-
8	5.2	78.0	75.0	77.2	74.2	546.7	24.5	112.6	88.8	-
10	5.8	78.0	75.0	75.3	72.3	545.4	25.0	111.9	89.4	-
16	7.3	78.0	75.0	71.2	68.2	543.0	25.0	111.9	89.4	-
20	8.2	78.0	75.0	69.3	66.3	542.0	25.0	111.9	89.4	-
25	9.2	78.0	75.0	67.3	64.3	541.2	24.3	112.9	88.5	-
31,25	10.3	78.0	75.0	65.4	62.4	540.4	23.6	114.1	87.7	85.0
62,5	14.6	78.0	75.0	59.4	56.4	538.6	21.5	118.3	84.5	85.0
100	18.5	75.4	72.4	55.3	52.3	537.6	20.1	121.9	82.0	85.0
150	22.8	72.8	69.8	51.8	48.8	536.9	18.9	125.7	79.6	81.5
200	26.5	70.9	67.9	49.3	46.3	536.5	18.0	128.8	77.6	79.0
250	29.7	69.4	66.4	47.3	44.3	536.3	17.3	131.5	76.0	77.0
300	32.7	68.2	65.2	45.8	42.8	536.1	16.8	131.6	76.0	75.5
500	42.8	64.9	61.9	41.3	38.3	535.6	15.2	131.6	76.0	71.0
600	47.1	63.7	60.7	39.7	36.7	535.5	17.3	131.6	76.0	69.4
800	54.9	61.9	58.9	37.2	34.2	535.3	16.1	137.4	72.8	66.9
1000	61.9	60.4	57.4	35.3	32.3	535.1	15.1	142.8	70.0	65.0

Marking

FURUKAWA GIGALAN AUGMENTED CAT. 7A S/FTP 23AWGX4P LSZH 75°C IEC 60332-3 VERIFIED TO IEC 61156-5 CAT 7A --- LZ AAMMDDHHmm JNN {1}m

Where: **Traceabitlity AAMMDDHHmm**: AA-year; MM- month; DD- day; HH- hour; mm- minute **JNN-** Batch number **{1}** - decreasing sequential length marking starting from 305 m to 000 m

Package

Standard Lengh

305 meters

Observations



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