



## CABLE GIGALAN GREEN U/UTP 23AWGX4P CAT.6 LSZH-3D

Description	Data cable GigaLan Category 6 unshielded, for indoor applications		
Application	It supports: ATM -155 (UTP), AF-PHY-OO15.000 and AF-PHY-0018.000; TP-PMD , ANSI X3T9.5; GIGABIT ETHERNET, IEEE 802.3ab 1000 baseT, IEEE 802.3an 2006; 100BASE-TX, IEEE 802.3u; 100BASE-T4, IEEE 802.3u; 100vg-AnyLAN, IEEE802.12; 10BASE-T, IEEE802.3; TOKEN RING, IEEE802.5; 3X-AS400, IBM; TSB-155; ATM LAN 1.2 Gbit/s, AF-PHY 0162.000 2001.		
Category	CAT.6		
Installation Environment	Internal		
Operation Environment	Non heavy		
Compatibility	CAT.6 unshielded connectors and patch panels		
Conductor	Solid bare copper		
Conductor Gauge	23AWG		
Insulation	High density polyethylene of nominal diameter 1.0mm		
Pair	All pairs are twisted in such way to reduce Crosstalk effects. Each conductor is identified according with the following color sequence.		
Number of Pairs	4		
Integrated Pair Divider	Yes		
Core	All pairs are assembled, making the core cable. It has a central element (cross web) made of a thermoplastic material to separate all 4 pairs.		
Construction	U/UTP		
Color code	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
Shield	Unshielded		

Sheath	LSZH compound that uses sugarcane in its formulation, also known as green polyethylene, extracted from ethanol
Color	Blue, Grey, Yellow, White, Black, Red, Green Other colors on request
Cable Flammability Rating	LSZH - IEC 60332-3-25 (Category D)
Nominal Diameter	6.0mm
Operation Temperature	-20°C up to 60°C
Storage Temperature	-20°C up to 70°C
Installation Temperature	0°C up to 50°C
Insulation Resistance	10000 MΩ.km
Maximum Unbalance Resistance	5%
Conductor Max. DC Resistance @ 20 °C	93.8 Ω/km
Maximum Mutual Capacitance @ 1 kHz	56 pF/m
Max. Unbalance Capacitance Pair x Ground @ 1 kHz	3.3 pF/m
Dielectric strength	2500 VDC/3s
Characteristic Impedance	100±15% Ω
Maximum Propagation Delay	545ns/100m @ 10MHz
Maximum Delay Skew	45ns/100m

NVP 68%

#### Transmission Performance

Freq.	IL, dB		NEXT, dB		PSNEXT, dB		ACRF, dB		PSACRF, dB		RL, dB	
(MHz)	TIA Max.	Typical	TIA Min.	Typical	TIA Min.	Typical	TIA Min.	Typical	TIA Min.	Typical	TIA Min.	Typical
1	2.0	1.5	74.3	94.0	72.3	88.3	67.8	89.8	64.8	82.5	20.0	35.0
4	3.8	3.2	65.3	86.2	63.3	80.0	55.8	78.3	52.8	70.3	23.0	35.7
8	5.3	4.6	60.8	81.9	58.8	75.2	49.7	71.8	46.7	64.6	24.5	38.7
10	6.0	5.2	59.3	80.9	57.3	74.1	47.8	69.5	44.8	62.4	25.0	37.6
16	7.6	6.7	56.2	76.7	54.2	70.9	43.7	65.5	40.7	58.6	25.0	41.9
20	8.5	7.5	54.8	74.5	52.8	69.1	41.8	64.2	38.8	57.0	25.0	38.4
25	9.5	8.5	53.3	73.6	51.3	67.7	39.8	62.2	36.8	55.0	24.3	39.1
31.25	10.7	9.5	51.9	71.5	49.9	65.4	37.9	59.9	34.9	52.6	23.6	38.5
62.5	15.4	13.8	47.4	70.2	45.4	62.7	31.9	53.3	25.9	45.6	21.5	35.9
100	19.8	17.8	44.3	66.9	42.3	61.4	27.8	49.2	24.8	40.6	20.1	31.9
200	29.0	26.1	39.8	62.4	37.8	56.5	21.8	42.2	18.8	33.8	18.0	28.4
250	32.8	29.3	38.3	60.1	36.3	53.2	19.8	39.7	16.8	31.7	17.3	26.5
300	-	32.5	-	57.5	-	51.6	-	36.8	-	29.3	-	25.2
350	-	35.3	-	55.8	-	49.5	-	32.7	-	26.0	-	23.9
400	-	38.0	-	53.0	-	47.6	-	29.8	-	24.4	-	23.9
500	-	42.8	-	52.0	-	48.5	-	25.3	-	19.5	-	24.9
550	-	45.0	-	50.0	-	47.5	-	23.3	-	17.6	-	25.7
600	-	47.0	-	48.0	-	46.1	-	19.6	-	13.7	-	24.0

Note: Cable measurements performed on cable samples of 100m (328ft) removed from the reel or packing, laid out along a non-conducting surface supported in aerial spans in accordance with ANSI/TIA-568.2-D

PoE	PoE (IEEE 802.3af) - Without bundle restriction PoE+ (IEEE 802.3at) - Without bundle restriction PoE++ (IEEE 802.3bt) - 192 bundles 4PPoE (IEEE 802.3bt) - 128 bundles
Permanent Link	Up 90m permanent link
Channel	Channel up to 6 connections - 100m
MPTL	Up to 90m MPTL
RoHS	Cable according with RoHS directive (Restriction of Hazardous Substances)

Standard	ANSI/TIA-568.2-D ISO/IEC 11801 IEC 61156-5 IEC 60332-3 IEC 60754-2 IEC 61034-2 UL 444 ABNT NBR 14703 ABNT NBR 14705 ABNT NBR 14565	
Certifications	ETL Verified	1103011438CRT-004a
	ETL 4 connections	3073041-003
	ETL 6 connections	102086938CRT-001a
	Anatel	00498-13-00256
Warranty	12 months	
Marking	<b>FURUKAWA GIGALAN GREEN CAT.6 U/UTP 23AWGX4P LSZH 75C ROHS COMPLIANT ANATEL 00498-13-00256 ETL VERIFIED TO ANSI/TIA-568.2-D LIGHTERA YAAMMDDHHmm {1}m</b> Where: <b>YAAMMDDHHmm</b> - Y: Traceability, AA: Year, MM: Month, DD: Day, HH: Hour, mm: minute  <b>{1}</b> - Sequential length marking in meters	
Cable Weight	39,38 kg/km	
Package	305m: Cardboard box RIB (Reel in a Box) type	

[Part Numbers](#)