

## GIGALAN F/UTP 23AWGX4P CAT.6A LSZH-22A EUROCLASS Dca

Description	Shielded data cable GigaLan Categ	porv 6A for indoor applications	
Application	It supports: 10GIGABIT ETHERNE IEEE 802.3u; 100BASE-T4, I AF-PHY-OO15.000 and AF-PHY-	ET, IEEE 802.3an; GIGABIT ETHEI IEEE 802.3u; 100vg-AnyLAN, 0018.000; TP-PMD, ANSI X3T9.5	IEEE802.12; ATM-155 (UTP), 5; 10BASE-T, IEEE802.3; TOKEN
0.1	RING, IEEE802.5; 3X-AS400, IBM;	POE+ technology (in accordance t	o IEEE 802.3at and TSB-184).
Category	CAT.6A		
Installation Environment	Internal		
Operation Environment	Non heavy		
Compatibility	FCS products		
Conductor	Solid bare copper		
Conductor Gauge	23AWG		
Insulation	High density Polyethylene nominal	diameter 1.1 mm	
Pair	All pairs are twisted in such way to the following color sequence.	reduce Crosstalk effects. Each con-	ductor is identified according with
Number of Pairs	4		
Integrated Pair Divid	derYes		
Cabling	All pairs are assembled, making thermoplastic material to separate a		element (cross web) made of a
Construction	F/UTP		
Color code	Pair 1 2 3	Conductor "A"  White  White  White	Conductor "B"  Blue  Orange  Green
	4	White	Brown





Shield	Shielded
Drain Wire	26 AWG wire in contact with the foil.
Ripcord	With ripcord
Sheath	LSZH compound, flame retardant, suitable to meet the cable flame rating class
Color	Gray Other colors on request
Cable Flammability Rating	LSZH: IEC60332-1, IEC60332-3-22A
Nominal Diameter	7.3mm
Operation Temperature	-20° up to 60°C
Storage Temperature	-20° up to 60°C
Installation Temperature	0°C up to 50°C
Pulling Tension	> 400 N
Insulation Resistance	10000 MΩ.km
Maximum Unbalance Resistance	4%
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
Dieletric strength	Between conductors  Between each conductor and shield  2500 VDC/3s  2500 VDC/2s
Characteristic Impedance	100±15% Ω
	545ns/100m





## Maximum Propagation Delay

Maximum Delay Skew 45ns/100m

NVP 68%

Transmission Performance

Freq	IL (dB	/100m)	NEX.	Г (dB)	PSNE	XT (dB)	ACR	F (dB)
(MHz)	TIA/EIA	Typical	TIA/EIA	Typical	TIA/EIA	Typical	TIA/EIA	Typical
	Max.		Min.		Min.		Min.	
1	2.1	1.6	74.3	104.6	72.3	91.4	67.8	100.8
4	3.8	3.2	65.3	93.8	63.3	80.2	55.8	95.6
8	5.3	4.8	60.8	91.3	58.8	78	49.7	89.4
10	5.9	5.3	59.3	95.6	57.3	73.8	47.8	87.4
16	7.5	6.7	56.2	79.9	54.2	72.6	43.7	80.8
20	8.4	7.7	54.8	82.1	52.8	71.8	41.8	77.9
25	9.4	8.7	53.3	85.9	51.3	72.8	39.8	76.6
31.25	10.5	9.6	51.9	75.3	49.9	69.4	37.9	74.6
62.5	15	13.8	47.4	68.6	45.4	60.8	31.9	64
100	19.1	17.6	44.3	66.5	42.3	61	27.8	60.3
200	27.6	25.2	39.8	63.3	37.8	56.2	21.8	57.5
250	31.1	28.4	38.3	59.5	36.3	53.8	19.8	50.5
300	34.3	31.1	37.1	59.2	35.1	51.9	18.3	49.8
400	40.1	36.3	35.3	57.6	33.3	49.6	15.8	49.7
500	45.3	40.7	33.8	54.4	31.8	48.6	13.8	43.2
550	-	41.0	-	42.2	-	40.2	-	36.3
600	-	42.5	-	34.0	-	33.2	-	35.5
700	-	46.3	-	32.0	-	30.0	-	31.6

Freq	PSACE	RF (dB)	RL	(dB)	PSANE	XT (dB)	PSAAC	RF (dB)
(MHz)	TIA/EIA Min.	Typical	TIA/EIA Min.	Typical	TIA/EIA Min.	Typical	TIA/EIA Min.	Typical
1	64.8	93.8	20	35.4	67	90	67	88
4	52.8	88.4	23	37.2	67	90.8	66.2	87.3
8	46.7	81.8	24.5	42.3	67	92.8	60.1	87
10	44.8	77.7	25	36.9	67	92.4	58.	87.1
16	40.7	71.3	25	40.5	67	91.9	54.1	84.7
20	38.8	69.6	25	39.9	67	85.3	52.2	79.3
25	36.8	67.4	24.3	38.2	67	86.5	50.2	77.8
31.25	34.9	65.8	23.6	39.5	67	86.2	50.2	76.9
62.5	28.8	58.4	21.5	31.3	65.6	85.6	42.3	72.3
100	24.8	53.7	20.1	31.2	62.5	86.6	38.2	68.9
200	18.8	50.8	18	30.2	58	83.6	32.2	60.5





250	16.8	44.8	17.3	26.2	56.5	83.9	30.2	56.9
300	15.3	44.2	16.8	29.5	55.3	81.8	28.7	52.8
400	12.8	42.3	15.9	26.5	53.5	79.7	26.2	46.8
500	10.8	35.4	15.2	21.8	52	76.7	24.2	38.6
550	-	34.6	-	20.4	-	74.0	-	33.0
600	-	34.0	-	17.4	-	72.9	-	30.8
700	-	30.1	-	15.6	-	70.9	-	26.9

Cable Measurements are made at 20 °C in 100 meters cables, pulled out of their packages and released on a non-conductive surface as described in ANSI/TIA-568.2-D. Alien Crosstalk measurement made at 20 °C in seven 100 meters samples (Six around one configuration) according to ANSI/TIA-568.2-D.

Standard	ANSI/TIA-568.2-D	
	ISO/IEC 11801	
	IEC 61156-5	
	IEC 60332-1, IEC 60332-3-22A (Flame) IEC 60754-2 (Acidity of smoke)	
	IEC 61034-2 (Modelly of smoke)	
	CENELEC/EN 50288-10-1	
	EN 50173	
Certifications	ETL Verified	3130563
	ETL 4 connections	101795378CRT-001a
	CPR	Dca (s2,d2,a1)
Warranty	12 months	Dca (s2,d2,a1)
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<u> </u>	12 months	X4P LSZH 75°C PoE++ EN 50399 Euroclass
Warranty Marking	12 months  FURUKAWA GIGALAN CAT 6A F/UTP 23AWG Dca-s2,d2,a1 - ETL VERIFIED TO TIA-568.2-D CA	X4P LSZH 75°C PoE++ EN 50399 Euroclass
<u> </u>	12 months  FURUKAWA GIGALAN CAT 6A F/UTP 23AWG Dca-s2,d2,a1 - ETL VERIFIED TO TIA-568.2-D CA Where:	X4P LSZH 75°C PoE++ EN 50399 Euroclass AT 6A YAAMMDDHHmm {1}m
<u> </u>	12 months  FURUKAWA GIGALAN CAT 6A F/UTP 23AWG Dca-s2,d2,a1 - ETL VERIFIED TO TIA-568.2-D CA	X4P LSZH 75°C PoE++ EN 50399 Euroclass AT 6A YAAMMDDHHmm {1}m
<u> </u>	12 months  FURUKAWA GIGALAN CAT 6A F/UTP 23AWG Dca-s2,d2,a1 - ETL VERIFIED TO TIA-568.2-D CA Where:	X4P LSZH 75°C PoE++ EN 50399 Euroclass AT 6A YAAMMDDHHmm {1}m
<u> </u>	12 months  FURUKAWA GIGALAN CAT 6A F/UTP 23AWG Dca-s2,d2,a1 - ETL VERIFIED TO TIA-568.2-D CA  Where: YAAMMDDHHmm - Y: Traceability, AA: Year, MM	X4P LSZH 75°C PoE++ EN 50399 Euroclass AT 6A YAAMMDDHHmm {1}m
Marking	12 months  FURUKAWA GIGALAN CAT 6A F/UTP 23AWG Dca-s2,d2,a1 - ETL VERIFIED TO TIA-568.2-D CA  Where: YAAMMDDHHmm - Y: Traceability, AA: Year, MM.  {1} - Sequential length marking in meters	X4P LSZH 75°C PoE++ EN 50399 Euroclass AT 6A YAAMMDDHHmm {1}m

Part Numbers



