



## PATCH CORD U/UTP GIGALAN CAT.6

<b>Product Type</b>	Metallic Patch Cord
<b>Product Family</b>	Gigalan
<b>Standard</b>	ROHS Compliant

### Applications

<b>Installation Environment</b>	Indoor
<b>Operation Environment</b>	Not aggressive
<b>Compatibility</b>	All FCS products
<b>Warranty</b>	12 months
<b>Extended Guaranty</b>	15 or 25 years - in accordance to the Special Warranty Program FCS

### Advantage

- Exceeds the limits established in the standards for CAT.6/Classe E
- Guaranteed channel performance up to 6 connections and channel length up to 100 meters;
- Supports IEEE 802.3, 1000 Base T, 1000 Base TX, EIA/TIA-854, ANSI-EIA/TIA-862, ATM, Video, Building Automation Systems and all previous LAN protocols;
- According to IEC 60603-7;
- Colored injected thermoplastic protective covers ("boot") to prevent "fatigue in the cable" in the connection and moves and to prevent accidental disconnection. This protective layer has the same dimensional of a RJ45 plug and its structure prevents pinching on the plug lock ;
- RJ-45 with dual clutches that provide the link with the veins of electrical cable;
- Guarantee ZERO BIT ERROR in Fast and Gigabit Ethernet;
- 100% assembled and tested at the factory.

<b>Marking</b>	"FURUKAWA GIGALAN U/UTP FLEX RoHS 24 AWG x 4P E1 60837 CM C (UL) US ANATEL XXX-XXX-XXX/ZZZ-ZZZ-ZZZ ETL VERIFIED TO EIA/TIA 568-B.2-1 CAT 6 PATCH CABLE YAAMMDHHmm" Length recorded on the coat.
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<b>Trace</b>	Label with serial number on one end.
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### Constructive characteristic

<b>Length</b>	From 0,5 up to 20 meters
<b>Nominal Diameter</b>	6,0mm
<b>Weight</b>	0,034kg/m

<b>Color</b>	Yellow, Blue, White, Red, Gray, Green, Black, Brown*, Beige* and Orange*.
<b>Connector Type</b>	RJ-45
<b>Cable type</b>	U/UTP Cat.6
<b>Conductor type</b>	Electrolytic copper, flexible, bare, formed by 7 filaments of nominal diameter of 0,20mm
<b>Flammability Grade</b>	CM, CMR, LSZH or LSZH-1
<b>Number of Pairs</b>	4 pairs, 24AWG
<b>Material of electrical contact</b>	8-way phosphor bronze with 100µin (2,54 µm) of nikel and 50µin (1,27 µm) of gold
<b>Material of Product body</b>	Transparent thermoplastic material UL 94V-0
<b>Assembly Standard</b>	T568A/B or Cross-over
<b>Storage Temperature</b>	-40°C up to +70°C
<b>Operation Temperature</b>	-10°C to +60°C
<b>Performance</b>	
<b>Cycles quantity</b>	≥ 750 RJ-45
<b>Maximum CC resistance</b>	93,8 Ω/km
<b>Maximum Mutual Capacitance 1kHz</b>	56 pF/m
<b>Characteristic Impedance</b>	100±15%Ω
<b>Dielectric strength</b>	2500 VDC/3s
<b>NVP</b>	66 %
<b>Delay skew between pairs</b>	45 ns/100m

**Electrical performance**

Frequency (MHz)	Attenuation (dB/100m) Maximum	NEXT (worst pair) dB	Power Sum NEXT dB	ELFEXT (worst pair) dB	Power Sum ELFEXT dB	Return Loss dB
0,772	---	76,0	74,0	---	---	---
1	2,4	74,3	72,3	67,8	64,8	20,0
4	4,6	65,3	63,3	55,8	52,8	23,0
8	6,4	60,8	58,8	49,7	46,7	24,5
10	7,2	59,3	57,3	47,8	44,8	25,0
16	9,1	56,2	54,2	43,7	40,7	25,0
20	10,2	54,8	52,8	41,8	38,8	25,0
25	11,4	53,3	51,3	39,8	36,8	24,2
31,25	12,8	51,9	49,9	37,9	34,9	23,3
62,5	18,4	47,4	45,4	31,9	28,9	20,7
100	23,7	44,3	42,3	27,8	24,8	20,0
200	34,8	39,8	37,8	21,8	18,8	16,4
250	39,4	38,3	36,3	19,8	16,8	15,5

**Package**
**Package Type**

Transparent plastic bag with identification label.

**Amount for box gift**

- From 0,5 to 2,5m: 40 pieces
- From 3,0 to 4,0m: 25 pieces
- From 4,0 to 6,0m: 15 pieces
- From 6,0 to 12,0m: 10 pieces
- From 12,0 to 15,0m: 06 pieces
- More than 15,0m: 05 pieces

**Minimum order quantity**

1 box\*

\* Minimum order quantity is 3000 meters of cable in the colors Brown, Beige and Orange.

**Dimension**

320 x 220 x 220 mm

**Associated Solutions**

Data Center, Commercial Building, Government, Finances, Health, Education

**Standards and Certifications**
**Standard**

EIA/TIA 568 C.2 and Addendums

ANSI/TIA/EIA-569

ISO/IEC 11801

FCC part 68

ANSI/TIA/EIA 606

## **Certification**

ETL 4 connections 3073041-003

ETL 6 connections 3118430CRT-003

ISO9001/ISO14001 416253

UL Listed E173971

ETL Verified 3126372CRT-002c

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