

# U/UTP CAT.6 COPPER PATCH CORD - GIGALAN



**Product Type** Metallic Patch Cord

**Product Family** GigaLan

**Standard** ROHS Compliant

## Applications

**Installation Environment** Indoor

**Operation Environment** Non aggressive

**Compatibility** All FCS products

**Warranty** 12 months

**Extended Warranty** 15 or 25 years - in accordance to the FCS Extended Warranty Program

## 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;
- 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.

**Marking** "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-C.2 CAT 6 PATCH CABLE YAAMMDHHmm"  
Length recorded on the coat.

**Trace** Label with serial number on one end.

## Constructive characteristic

**Length** From 0.5 up to 20 meters

**Nominal Diameter** 5.5mm

**Weight** 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 Rating</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 nickel 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 per box gift**

From 0.5m to 1.5m: 20 pieces  
 From 2.0m to 2.5m: 15 pieces  
 From 3.0m: 10 pieces  
 From 4.0m to 6.0m: 20 pieces  
 From 7.0m to 12.0m: 12 pieces  
 From 13.0m to 20.0m: 08 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  
 NMX-I-248-NYCE-2008  
 ISO/IEC 11801 v2

**Certification**

ETL 4 connections 3073041-003

ETL 6 connections 102086938CRT-001a

ISO9001/ISO14001 416253

ETL Verified 3126372CRT-002c

IEC 60332-1 (LSZH)

CENELEC/EN 50288-6-2

ISO/IEC 61156-6

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