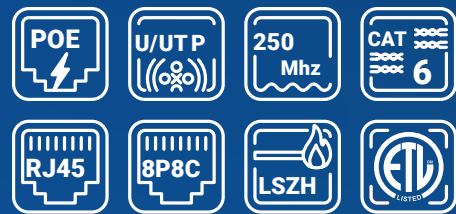


# CAT 6 U/UTP Patch Cord | Unshielded



OPTOKON Elektronik Category 6 Class E U/UTP Patch Cords are manufactured and tested to the ISO/IEC 11801 and DIN EN 50173 Category 6 specifications. The performance is tested up to 250 MHz inclusive performance characteristics such as near end crosstalk ("NEXT"). OPTOKON Elektronik patch cords are designed and produced to fulfill the highest requirements of various application areas in full volume. Each cable is fitted with a molded boot which comes with kink protection and strain relief. Furthermore the boot is equipped with a latch protection that prevents the latching lever against breaking. You can easily identify the Category 6, because of the transparent red colored connector.



## Key Properties

1. 2xRJ45 (8P8C) Connectors
2. Boots With Kink Protection
3. Strain Relief
4. Latch Protection Boots
5. Length Marking on Boot
6. Plastic Cross Separator
7. PoE+ Ready

## Technical Properties

Conductor Material	Cu (Copper)
Sheath Material	LSZH (Low Smoke Zero Halogen)

## Physical Properties

Shielding	U/UTP Unshielded	Product Code	Product Description
Cord Structure	4x 2 AWG 26/7, Twisted pair	RD-02-2UU6	CAT 6 Class E, U/UTP, Twisted Pair Patch Cord

# CAT 6 U/UTP Patch Cord | Unshielded



## Performance and Specifications

Conductor	Stranded Bare Copper AWG 26/7 0.148 ± 0.005 mm
Insulations	FOAM PE (Foamed Polyethylene)
Outer Sheath	LSZH (Low Smoke Zero Halogen)
Outer Diameter	5.8 mm ± 0.30 mm
Bending Radius	15 x Outer Diameter
RJ45 Connector	3μ nominal gold flash over 60μ nickel undercoat contact pins
Color Code	Orange x White, Green x White, Blue x White, Brown x White
Wiring Standard	EIA/TIA 568B
Pin Assignment	1:1
Durability	750 insertion cycles
Contact Resistance	30 mΩ max.
Resistance Unbalance	3% max.
Dielectric Strength	2500 VDC for 3 seconds
Uninsulated Resistance	150 MΩ/km min.
Operating Temperature	-20 °C to +60 °C
Nvp	76%
Flame Retardancy	IEC 60332-1
Smoke Emission	IEC 61034
Typical Applications	IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T; 10GBASE-T
Norms	ISO/IEC 11801-1; EN-50173; ANSI/TIA 568-C; EN 60603-7-51
Colors	Grey
Marking	Brand name, cable length and cable information

Frequency MHz	Insertion Loss dB	NEXT dB	RL dB	ACR-F dB	PS NEXT dB	PS ACRF dB
1.00	4.00	65.00	19.00	63.30	62.00	60.30
10.00	6.50	56.60	19.00	43.30	54.00	40.30
20.00	9.20	51.60	17.50	37.20	49.00	34.20
25.00	10.20	50.00	17.00	35.30	47.30	32.30
62.50	16.40	43.40	14.00	27.30	40.60	24.30
100.00	20.90	39.90	12.00	23.30	37.10	20.30
200.00	30.10	34.80	9.00	17.20	31.90	14.20
350.00	40.60	30.30	6.60	12.40	27.60	9.40
500.00	49.30	27.90	6.00	9.30	24.80	6.30

Article No	Length m	Tolerance mm
<b>RD-02-2UU6-025</b>	0.25	+20/-6
<b>RD-02-2UU6-05</b>	0.5	+20/-10
<b>RD-02-2UU6-1</b>	1.0	+/-20
<b>RD-02-2UU6-2</b>	2.0	+/-30
<b>RD-02-2UU6-3</b>	3.0	+/-40
<b>RD-02-2UU6-5</b>	5.0	+/-50
<b>RD-02-2UU6-10</b>	10	+/-60

\*Available only one colour; Grey

\*The cable length is measured from plug A to plug B

\*The results of the chart above are typical for Category 6A, Class EA patch cords 2 m, 5 m up to 10 m length

