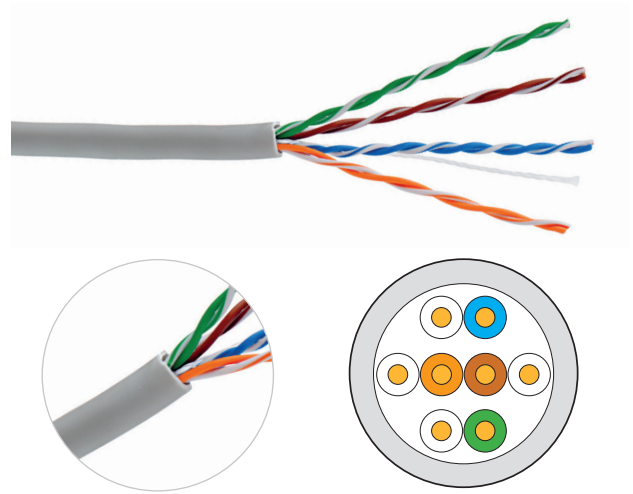


# UTP (U/UTP) cable 4x2xAWG24, Category 5E, 300 MHz, Euroclass E<sub>ca</sub>

P/N: 799053-Eca-RLX

305 m in a box



## Properties

- unshielded cable with PVC sheath
- enables transmission of all high-speed protocols up to 1000BASE-T
- tested in a bandwidth up to 300 MHz
- enables RJ45 connectors to be mounted directly to a cable
- not shielded against electromagnetic interference

## Application

- primary (Campus), secondary (Riser), tertiary (Horizontal)
- IEEE 802.3: 10BASE-T; 100BASE-TX; 1000BASE-T
- IEEE 802.5 16 MB; ISDN; TPDDI; ATM

## Construction

Conductor	bare copper wire, AWG 24
Insulation	polyethylene, Ø 0,9 mm
Twisting	2 cores to the pair
Pair screen	4 pairs to the core
Sheath	gray RAL 7035
Outer cable diameter	5 mm

### Reaction to fire and flame resistance

Reaction to fire	E <sub>ca</sub>	
	flame retardancy	IEC 60332-1-2
Fire safety	smoke performance	—
	halogen acidity	—

### Mechanical properties

Min. bending radius	installation	40 mm
	operation	20 mm
Temperature range	installation	0°C to +50°C
	operation	-20°C to +60°C
Max. tensile load		100 N (10 kg)
Weight (netto)		31 kg/km

### Electrical properties at 20°C

Loop resistance	—	≤ 11,5 Ω/100 m
Resistance unbalance	—	≤ 2 %
Insulation resistance	(500 V)	≥ 5 000 MΩ x km
Capacity	at 800 Hz	nom. 56 nF/km
Capacity unbalance	(pair/ground)	≤ 1 500 pF/km
Characteristic impedance	at 100 MHz	(100 ± 5) Ω
Nominal velocity of propagation (NVP)	—	cca 69 %
Propagation delay	Nominal	≤ 538 ns/100 m
Delay skew	Nominal	≤ 20 ns/100 m
Test voltage	(DC, 1 min) core/core	1 000 V
Coupling attenuation	—	≥ 40 dB

## Transmission properties at 20°C

f (MHz)	Attenuation (dB/100 m)	NEXT (dB min)	PS-NEXT (dB min)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ELFEXT (dB/100 m)	PS-ELFEXT (dB/100 m)	Return loss (dB)
1,0	1,9	71,0	68,0	69,1	66,1	68,0	65,0	20,0
4,0	3,7	62,0	59,0	58,3	55,3	56,0	53,0	23,0
10,0	6,0	56,0	53,0	50,0	47,0	48,0	45,0	25,0
16,0	7,6	53,0	50,0	45,4	42,4	44,0	41,0	25,0
20,0	8,5	51,0	48,0	42,5	39,5	42,0	39,0	25,0
31,2	10,7	49,0	46,0	38,3	35,3	38,0	35,0	24,0
62,5	15,7	44,0	41,0	28,3	25,3	32,0	29,0	22,0
100,0	19,8	41,0	38,0	21,2	18,2	28,0	25,0	20,0
125,0	22,3	40,0	37,0	17,7	14,7	26,0	23,0	19,0
155,5	24,2	38,0	35,0	13,8	10,8	24,0	21,0	—
175,5	25,7	37,0	34,0	11,3	8,3	23,0	20,0	—
200,0	27,5	36,0	33,0	8,5	5,5	22,0	19,0	—
250,0	29,2	35,0	32,0	5,8	2,8	20,0	17,0	—
300,0	32,0	34,0	31,0	2,0	-1,0	16,0	13,0	—



This product is certified on a component level by 3P international independent laboratories according to ISO/IEC 11801-1:2017, EN 50173-1:2018, ANSI/TIA 568.2-D:2018, IEC 61156-5:2020 (Ed. 3.0), EN 50288-3-1:2013, IEC 60332-1-2.

Mass production of this product is under permanent supervision of third party international laboratories performing 3P SURVEILLANCE maintenance testing and quality assurance sites.

The determination of Reaction to Fire Class Performance of this cable has been performed by Product Certification Body notified by European Commission, which also carries out the assessment and verification of constant performance (AVCP) in the System 3.