

Data sheet

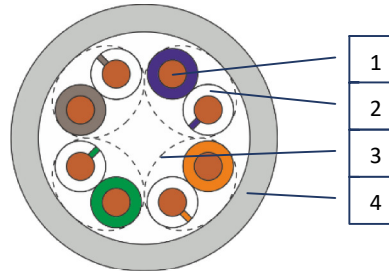
Cat.5e U/UTP 4x2x0,49 PVC-Eca

P/N: 1040114411



DESIGN

- 1) Conductor: soft copper wire AWG24 (\varnothing 0,49 mm \pm 0,005 mm)
- 2) Insulation: HDPE, \varnothing 0,88 mm \pm 0,05 mm
- 3) Pair: two conductors twisted together
Color identification of pairs:
pair 1: white-blue / blue
pair 2: white-orange / orange
pair 3: white-green / green
pair 4: white-brown / brown
- 4) Sheath: PVC, thickness 0,5 mm \pm 0,05 mm, nominal cable \varnothing 5,0 mm \pm 0,5 mm



APPLICATION

- PBX, V.11, X.21, ISDN, Ethernet (10Base-T), ATM-25/52/155 Mbit/s, 100VG-AnyLAN, Token Ring 16/100 Mbit/s
- Fast Ethernet (100BASE-TX), Gigabit Ethernet (1000BASE-T), 2,5 Gbit/s Ethernet (2.5GBASE-T) and 5 Gbit/s (5GBASE-T) with a Channel length of 100 meters confirmed
- PoE (802.3af), PoE+ (802.3at)

INSTALLATION AND OPERATION CONDITIONS

For stationary installation inside buildings, stations, structures and equipment. Operated on frequencies up to 100 MHz

COMPLIANCE WITH THE REQUIREMENTS

General standards : ISO/IEC 11801-1, ISO/IEC 11801-2, EN 50173-1, EN 50173-2, ANSI/TIA-568.2-D
Product standards: IEC 61156-5, EN 50288-3-1
CPR: Class E_{ca} (EN 60332-1-1, EN 60332-1-2, EN 50575) – AVCP 3

MECHANICAL CHARACTERISTICS

Temperature range:

- During installation 0 °C ... +50 °C
- After installation -20 °C ... +60 °C

Bending radius:

- During installation \geq 8 cable diameters
- After installation \geq 4 cable diameters

Tensile stress: \leq 100 N

ELECTRICAL CHARACTERISTICS AT 20 °C, 100 M

Parameter	Unit	Value
Capacitance	pF/m	\leq 56
Direct current resistance	Ohm/km	\leq 95
Insulation resistance	GOhm/km	\geq 5
Resistance unbalance	%	2
NVP	%	68
Propagation delay	ns/100 m	\leq 534+36/ \sqrt{f}
Delay shift on the frequency 100 MHz	ns/100 m	\leq 30
Characteristic impedance in the frequency range of: 1-100 MHz	Ohm	100 \pm 15
Test voltage between cores, (DC, 2 s)	kV	2,5



TRANSMISSION CHARACTERISTICS AT 20 °C, 85 M

Frequency, MHz	1	4	10	16	20	31,25	62,5	100
Attenuation, dB, max	2,1	3,8	6	7,6	8,5	10,8	15,5	19,9
NEXT, dB, min	75,3	66,3	60,3	57,3	55,8	52,8	48,3	45,3
PS NEXT, dB, min	72,3	63,3	57,3	54,3	52,8	49,8	45,3	42,3
ELFEXT, dB, min	68	56	48	44	42	38	32	28
PS ELFEXT, dB, min	65	53	45	41	39	35	29	25
RL, dB, min	20,0	23,0	25,0	25,0	25,0	23,6	21,5	20,1

ORDER INFORMATION

P/N	Cable name	Standard packing	Weight, kg/km
1040114411	ARGOS Premium Network Cable - CAT5e UTP PVC	305 m/box	28,1