

## Data sheet

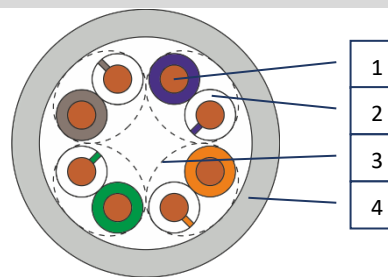
## Cat.5e U/UTP 4x2x0,49 PVC- Eca

P/N: ARGOS-CAT5e-UTP



### DESIGN

- 1) Conductor: soft copper wire AWG24 (Ø 0,49 mm)
  - 2) Insulation: HDPE, Ø 0,87 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
- X) Rip-cord
- 4) Jacket: PVC, thickness 0,5 mm, nominal cable Ø 4,732 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, PoE+, PoE++

### INSTALLATION AND OPERATION CONDITIONS

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

### COMPLIANCE WITH THE REQUIREMENTS

Cabling: ISO/IEC 11801-1, EN 50173-1, ANSI/TIA-568.2-D  
Cable: IEC 61156-5, EN 50288-3-1, ANSI/TIA-568.2-D  
CPR: class Eca (EN 60332-1-2)

### MECHANICAL CHARACTERISTICS

Temperature range:

- During installation -10 °C ... +60 °C
- After installation -20 °C ... +60 °C

Bending radius:

- During installation ≥ 8 cable diameters
- After installation ≥ 4 cable diameters

Tensile stress: ≤ 85 N

### ELECTRICAL CHARACTERISTICS AT 20 °C, 100 M

Parameter	Unit	Value
Capacitance	pF/m	≤ 56
Direct current resistance	Ohm/km	≤ 95
Insulation resistance	GOhm/km	≥ 5
Resistance unbalance	%	2
Signal propagation velocity	s	0,68
Propagation delay	ns/100 m	≤ 534+36/√f
Delay shift on the frequency 100 MHz	ns/100 m	≤ 30
Characteristic impedance in the frequency range of: 1-250 MHz	Ohm	100±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	250
Attenuation, dB, max	2,1	3,8	6	7,6	8,5	10,8	15,5	19,9	33
NEXT, dB, min	75,3	66,3	60,3	57,3	55,8	52,8	48,3	45,3	39,3
PS NEXT, dB, min	72,3	63,3	57,3	54,3	52,8	49,8	45,3	42,3	36,3
ELFEXT, dB, min	68	56	48	44	42	38	32	28	20
PS ELFEXT, dB, min	65	53	45	41	39	35	29	25	17
RL, dB, min	20,0	23,0	25,0	25,0	25,0	23,6	21,5	20,1	17,3

*IEC 61156-5, values lower than 4 MHz are given for information only*

## ORDER INFORMATION

P/N	Cable name	Standard packing	Weight, kg/km
ARGOS-CAT5e-UTP	ARGOS Premium Network Cable - CAT5e PVC	Cardboard box 305 m	27,5