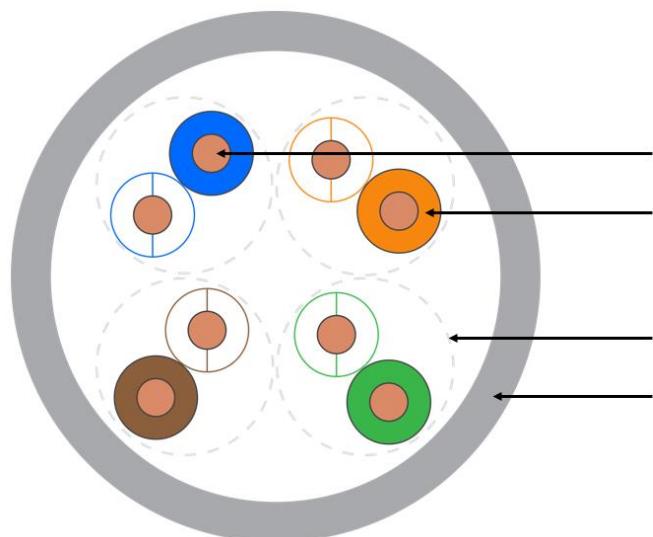


## Installation cable Cat.5e U/UTP 4PR PVC CPR Class Eca 200 MHz



### CONSTRUCTION:

- 1 – Conductor**  
Material: solid bare annealed copper.  
Nominal diameter: 24 AWG.
- 2 – Insulation**  
Material: polyolefin.  
Nominal diameter: 0.86 mm.
- 3 – stranded wires**  
Pair: 2, twisted insulated conductors.  
Number of pairs: 4, all twisted together.
- 4 – Outer sheath**  
Material: PVC.  
Color: grey (RAL 7035)

### STANDARDS

ISO/IEC 11801  
EN 50173  
EN 50288-2-1  
IEC 61156-5  
IEC 60332-1

### SUPPORTED APPLICATIONS

10BASE-T (IEEE 802.3)  
100BASE-T (IEEE 802.3)  
1000BASE-T (Gigabit Ethernet)

### ORDERING

**XE1012051400** – Box 305m

### MECHANICAL CHARACTERISTICS

Min. bending radius in operation	20	mm
Min. bending radius during installation	35	mm
Nominal weight	28	kg/km
Nom. outer diameter	4,8	mm
Nom. wire diameter	24	AWG

### ELECTRICAL CHARACTERISTICS @ 20°C

Max. Loop resistance	190	Ω/km
Max resistance unbalance	2	%
Min. insulation resistance (500V)	5000	MΩ*km
Nom. mutual capacitance @ 1000Hz	50	nF/km
Max capacitance unbalance	1600	pF/km
Mean characteristic impedance @ 100MHz	100 ± 5	Ω
Nominal velocity of propagation NVP	69	%
Test voltage	1000	VDC

#### Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.

Max Transfer impedance	@ 4÷10 MHz	20+5lg(f)	mΩ/m
	@ 10÷20 MHz	25	mΩ/m
	@ 20÷200 MHz	25-7lg(f/20)	mΩ/m
Segregation classification acc. EN 50174-2		A	-
Coupling attenuation		<40	dB

## TEMPERATURE CHARACTERISTICS

Storage Temperature	-30 to +70	°C
Operating Temperature	-30 to +70	°C
During installation	-10 to +50	°C

## ENVIRONMENTAL CHARACTERISTICS

Jacket material	PVC
Flammability	Acc. to IEC 60332-1-2, EN50575; Eca

## TRANSMISSION CHARACTERISTICS

Frequency	Attenuation	NEXT	PS-NEXT	ELFEXT	PS- ELFEXT	RL
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m
1	2,1	65,3	62,2	63,8	60,8	20,0
4	4,0	56,3	53,3	51,8	48,8	23,0
10	6,3	50,3	47,3	43,8	40,8	25,0
16	8,0	47,2	44,2	39,7	36,7	25,0
20	9,0	45,8	42,8	37,8	34,8	25,0
30	11,2	43,1	40,1	34,3	31,3	23,8
45	13,9	40,5	37,5	30,7	27,7	22,5
60	16,2	38,6	35,6	28,2	25,2	21,7
80	18,9	36,7	33,8	25,7	22,7	20,8
100	21,3	35,3	32,3	23,8	20,8	20,1
*120	23,6	34,1	31,1	22,2	19,2	19,5
*130	24,7	33,6	30,6	21,5	18,5	19,3
*155	27,2	32,4	29,5	20,0	17,0	18,8
*175	29,2	31,6	28,6	19,0	16,0	18,4
*200,0	31,5	30,8	27,8	17,8	14,8	18,0

\* For information only

## CABLE MARKING

FIBRAINDATA CABLE CAT5E U/UTP 4PR 24 AWG 200MHZ NVP 69% PVC CPR CLASS Eca ISO/IEC11801 EN50173 ANSI/TIA/568.2-D JJJJ XE1012051400 OFRRRRRR. XXXXX M

Where

**JJJJ:** production year  
**OFRRRRRR:** manufacturer order  
**XXXXX:** length

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