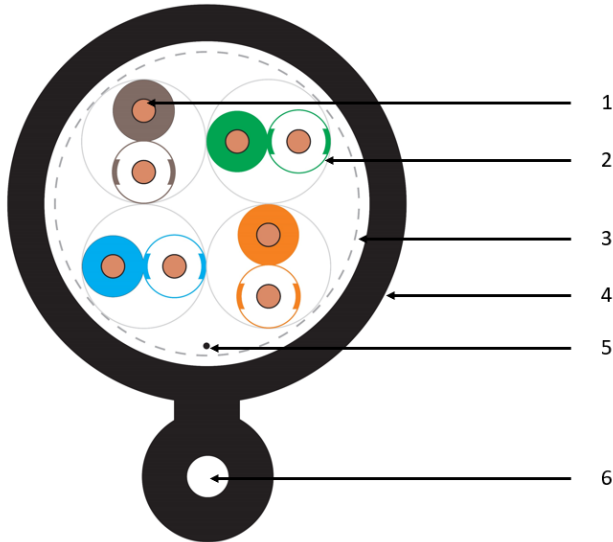


Installation self-supporting outdoor cable Cat.5 F/UTP 4PR PE 200 MHz



CONSTRUCTION:

- 1 – Conductor**
Material: solid bare annealed copper.
Nominal diameter: 24 AWG/0,5mm
- 2 – Insulation**
Material: PE.
Nominal diameter: 0,92 mm.
stranded wires
Pair: 2, twisted insulated conductors.
Number of pairs: 4, all twisted together.
- 3 – Screen:** Aluminum foil
- 4 – Outer sheath**
Material: PE, AV stabilized
Color: Black (RAL 9005)
- 5 – Drain wire**
- 6 – Self-supporting steel wire**

Standards

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

SUPPORTED APPLICATIONS

100BASE-T
1000BASE-T
2,5GBase-T
Power over Ethernet

Ordering

XE211245A005– reel 500m

MECHANICAL CHARACTERISTICS

Min bending radius without a load	6 x D	mm
Min bending radius with a load	8 x D	mm
Weight	61	kg/km
Copper content	16	kg/km
Outer diameter (Internal)	6,5x10,7	mm
Wire diameter	24	AWG

ELECTRICAL CHARACTERISTICS @ 20°C

Loop resistance	190	Ω/km
Max resistance unbalance	2	%
Min. insulation resistance (500V)	5000	MΩ*km
Nom. mutual capacitance @1kHz	50	nF/km
Max capacitance unbalance	1600	pF/km
Nominal velocity of propagation NVP	67	%
Test voltage	1000	V
Mean characteristic impedance @ 100 MHz	100 ± 5	Ω
Max Transfer impedance @ 10 MHz	10	mΩ/m
Segregation classification acc. EN 50174-2	C	-
Min coupling attenuation	55	dB

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

ENVIRONMENTAL CHARACTERISTICS

Temperature range during storage	-30 to +80	°C
Temperature range during operation	-30 to +80	°C
Temperature range during installation	-10 to +50	°C

NOMINAL TRANSMISSION CHARACTERISTICS

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

CABLE MARKING

FIBRAINDATA OUTDOOR CABLE CAT5e F/UTP 4PR 24 AWG 200MHZ NVP 67% PE ISO/IEC11801 EN50173 ANSI/TIA/568.2-D JJJJ XE211245A005 OFRRRRRR . XXXXX M

Where

JJJJ: production year
OFRRRRRR: manufacturer order
XXXXX: length

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