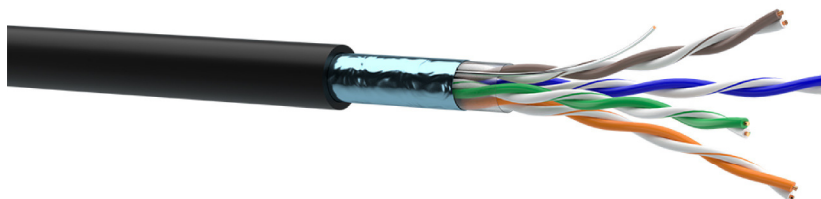


Data sheet

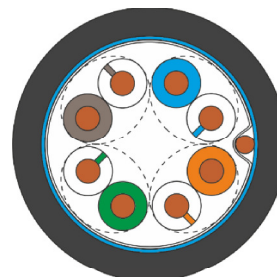
Cat.5e F/UTP 4x2x0,50 PE-Fca

P/N: 6058798109



DESIGN

- 1) Conductor: soft copper wire AWG24 (Ø 0,50 mm ± 0,005 mm)
- 2) Insulation: HDPE, Ø 1,00 mm ± 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) Foil material: Al/Mylar
- 5) Ground wire: tinned copper wire Ø 0,40 mm ± 0,005 mm
- 6) Sheath: LLDPE, thickness 0,55 mm ± 0,05 mm,
nominal cable Ø 6,2 mm ± 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 F_{ca} – AVCP 4

MECHANICAL CHARACTERISTICS

Temperature range:

- During installation 0 °C ... +50 °C
- After installation -20 °C ... +70 °C

 Bending radius:

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

 Tensile stress: ≤ 100 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
NVP	%	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: 1-100 MHz	Ohm	100±15
Test voltage between cores, (DC, 2 s)	kV	2,5



TRANSMISSION CHARACTERISTICS AT 20 °C

Frequency, MHz	1	4	10	16	20	31,25	62,5	100
Attenuation, dB, max	1,94	3,89	6,18	7,83	8,77	11,00	15,67	19,86
NEXT, dB, min	83,24	71,20	69,88	66,11	66,90	57,77	53,31	52,37
PS NEXT, dB, min	82,43	69,89	66,88	63,11	63,82	55,07	51,59	50,12
ELFEXT, dB, min	76,30	64,02	55,08	52,09	49,66	45,14	38,30	34,68
PS ELFEXT, dB, min	72,75	60,40	51,28	49,08	46,58	42,54	35,30	31,91
RL, dB, min	32,03	33,38	36,05	43,10	41,27	39,08	34,07	33,31

ORDER INFORMATION

P/N	Cable name	Standard packing	Weight, kg/km
6058798109	ARGOS Premium Network Cable - CAT5e FTP PE – OUTDOOR CABLE	Reel-in-Box 305 m	34,8