



Category 5e (200 MHz) FTP solid cable with PVC sheath

IEC 60332-1, UNE-EN 50265-2-1, EC Verified (DELTA), ANSI/TIA/EIA 568-B.2 (Cat. 5e), ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288

These screened cables provide excellent transmission characteristics that go beyond the Enhanced category 5 (Cat 5e) requirements, with performance values at 200 MHz much higher than other cables of this category available in the market. The screen minimises EMI radiation and susceptibility to outside noise.



CONSTRUCTION

Conductor	24 AWG (0,51 mm) solid bare annealed Copper
Insulation	Polyolefin
Pairing	Varying short pair lay-length
Screen	Aluminium / Polyester foil
Drain wire	24 AWG (0,51 mm) solid tinned annealed Copper
Sheath	Grey PVC

APPLICATIONS

- 10BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)

COLOUR CODE	
Pairs	Colour combination
1	white blue blue
2	white orange orange
3	white green green
4	white brown brown

ELECTRICAL AND CONSTRUCTIVE VALUES

DC resistance (max) Ohm/100m(328 ft) @ 20°C	8,90	
Mutual capacitance (max) nF/100m(328 ft) @ 1kHz	5,20	
Nominal velocity of propagation NVP (% speed of light)	68	
Characteristic impedance (Ohm) Value at	772 kHz 1.0-200 MHz	(min-max) 87-117 85-115
Return Loss (RL) dB (min) Value at	1.0 - 10 MHz 10 - 20 MHz 20 - 100 MHz	20+5 log(f) 25 25-7 log(f/20)
Propagation Delay (max) (ns @ 10 MHz)	540	
Delay skew (max) (ns/100 m)	45	
External diameter (mm)	5,5	
Weight (kg/km)	36	
Minimum bending radius (mm)	4 x Outer diameter = 22 mm	

Frequency MHz	Attenuat. Max dB/100m	NEXT dB/100m (min)	PS-NEXT dB/100m (min)	ELFEXT dB/100m (min)	PS-ELFEXT dB/100m (min)
0,772	1,8	72,0	69,0	68,2	65,2
1	2,1	70,3	67,3	66,0	53,0
4	4,0	61,3	58,3	54,0	51,0
8	5,6	56,8	53,8	47,9	44,9
10	6,2	55,3	52,3	46,0	43,0
16	7,9	52,2	49,2	41,9	38,9
25	10,0	49,3	46,3	38,0	35,0
31,25	11,2	47,9	44,9	36,1	33,1
62,5	16,2	43,4	40,4	30,1	27,1
100	20,9	40,3	37,3	26,0	23,0
155	26,7	37,4	34,4	22,2	19,2
200	30,8	35,8	32,8	20,0	17,0

305m

500m

1000m

ORDERING INFORMATION

Code	Pairs/AWG	Sheath	Packing
535004CC4P	4/24	Grey PVC	Pull-Pac Boxes 305 m
535204CC4P	4/24	PVC, Grey	Spools 1.000 m
535204CC4PQ	4/24	PVC, Grey	Spools 500 m