

F/UTP CAT6 4PR PVC

STANDARDS

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

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)
 1.2 Gbps ATM
 10G BASE-T (Length<50m)

CERTIFICATION



COLOUR CODES

Pairs	Colours Combinations
1	Light Blue / Blue
2	White / Orange
3	Light Green / Green
4	Light Brown / Brown

Sheath colour: Grey

PART NUMBER / PACKAGING

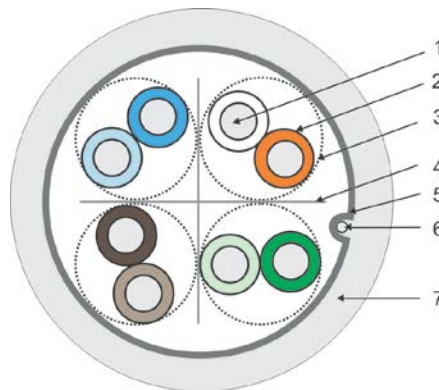
541104CC4PQ / Spools 500m
 54114A1C4P / Spools 1000m

OTHER CHARACTERISTICS

Storage Temperature -20°C to 70°C
 Operating Temperature -20°C to 70°C

Laying Temperature -5°C to +50°C
 (recommendation: between -5°C and +5°C,
 prior storage 24h at 20°C.)

Edition: January 2013



CONSTRUCTION

- 1 – Conductor: 23 AWG, Solid Bare Annealed Copper.
- 2 – Insulation: Polyolefin.
- 3 – Varying short pair lay-length (4 pairs).
- 4 – Cross Filler
- 5 – Overall Aluminium/Polyester foil
- 6 – Tinned copper drain wire.
- 7 – Sheath: PVC material

ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc Resistance (Ω/km) @20°C:	95.0
Nom. Mutual Capacity (nF/km)@1kHz:	56
NVP (% of light speed):	72
Mean input Impedance (Ω):	100 ± 5 @ 100MHz
Propagation delay (ns@10MHz):	max. 518
Delay Skew (ns/100m):	max. 40
Coupling Att dB (min.):	@30-100MHz 55 @100-1000MHz 55-20log(f/100)

Approx. outer diameter (mm):	6.6
Approx. weight (kg/km):	45.0
Min. bending radius (mm):	26.4
Calorific Value (MJ/m):	0.891

TRANSMISSION CHARACTERISTICS

Freq	ATTN	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR	RL
MHz	dB/100m (max.)	dB (min.)	dB (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB (min.)
1*	2.1	75.3	72.3	68.0	65.0	73.2	70.2	20.0
4	3.8	66.3	63.3	58.0	55.0	62.5	59.5	23.0
8	5.2	61.8	58.8	51.9	48.9	56.5	53.5	24.5
10	5.9	60.3	57.3	50.0	47.0	54.4	51.4	25.0
16	7.4	57.2	54.2	45.9	42.9	49.9	46.9	25.0
25	9.2	54.3	51.3	42.0	39.0	45.0	42.0	24.3
31.25	10.3	52.9	49.9	40.1	37.1	42.6	39.6	23.6
62.5	14.5	48.4	45.4	34.1	31.1	33.8	30.8	21.5
100	18.4	45.3	42.3	30.0	27.0	26.9	23.9	20.1
155	22.9	42.4	39.4	26.2	23.2	19.5	16.5	18.8
200	26.1	40.8	37.8	24.0	21.0	14.7	11.7	18.0
250	29.2	39.3	36.3	22.0	19.0	10.1	7.1	17.3
300*	32.0	38.1	35.1	20.5	17.5	6.1	3.1	17.3
350*	34.7	37.1	34.1	19.1	16.1	2.5	1.0	17.3

* For information only.

Note: DATA cables are not suitable for low impedance applications as: heating, lighting, etc...
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