F/UTP CAT6 4PR PVC+PE

STANDARDS

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

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)

COLOUR CODES

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

Outer sheath colour: Black

PART NUMBER / PACKAGING

54114A6NGPQ / Spools 500m
54114A6NGP / Spools 1000m

OTHER CHARACTERISTICS

Storage Temperature	-20ºC to 70ºC
Operating Temperature	-20ºC to 70ºC
Laying Temperature (recommendation: between -5ºC and +5ºC, prior storage 24h at 20ºC.)	-5ºC to +50ºC

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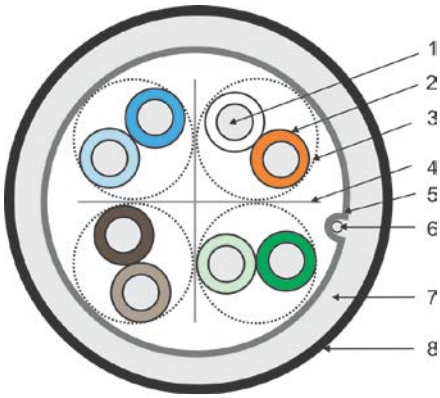

CONSTRUCTION

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 – Inner Sheath: PVC material.
8 – Outer Sheath: PE material.

ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc Resistance (Ω/km) @20ºC:	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):	8.0
Approx. weight (kg/km):	61.0
Min. bending radius (mm):	32.0

TRANSMISSION CHARACTERISTICS

Freq	ATTN	NEXT	PS-NEXT	ELFEXT (ACR-F)	PS-ELFEXT (PSACR-F)	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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